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## ANTIGENIC NEISSERIAL PEPTIDES

All documents cited herein are incorporated by reference in their entirety. In particular, the contents of international patent application WO99/24578 are fully incorporated herein.

## FIELD OF THE INVENTION

5 This invention relates to antigenic peptide sequences from the bacteria *Neisseria meningitidis* and *Neisseria gonorrhoeae*.

#### **BACKGROUND**

Neisseria meningitidis and Neisseria gonorrhoeae are non-motile, gram negative diplococci that are pathogenic in humans.

- Based on the organism's capsular polysaccharide, 12 serogroups of *N.meningitidis* have been identified. Group A is the pathogen most often implicated in epidemic disease in sub-Saharan Africa. Serogroups B and C are responsible for the vast majority of cases in the United States and in most developed countries. Serogroups W135 and Y are responsible for the rest of the cases in the United States and developed countries.
- The meningococcal vaccine currently in use is a tetravalent polysaccharide vaccine composed of serogroups A, C, Y & W135, but MenB remains a problem. The polysaccharide approach cannot be used because the MenB capsular polysaccharide is a polymer of α(2-8)-linked N-acetyl neuraminic acid that is also present in mammalian tissue. One approach to a menB vaccine uses mixtures of outer membrane proteins (OMPs) To overcome the antigenic variability, multivalent vaccines containing up to nine different porins have been constructed [eg. Poolman JT (1992) Development of a meningococcal vaccine. Infect. Agents Dis. 4:13-28]. Additional proteins to be used in outer membrane vaccines have been the opa and opc proteins, but none of these approaches have been able to overcome the antigenic variability [eg. Ala'Aldeen & Borriello (1996) The meningococcal transferrin-binding proteins 1 and 2 are both surface exposed and generate bactericidal antibodies capable of killing homologous and heterologous strains. Vaccine 14(1):49-53].

## THE INVENTION

The invention provides fragments of the proteins disclosed in international patent application WO99/24578, wherein the fragments comprise at least one antigenic determinant.

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Thus, if the length of any particular protein sequence disclosed in WO99/24578 is x amino acids (see Table II), the present invention provides fragments of at most x-I amino acids of that protein. The fragment may be shorter than this (eg. x-2, x-3, x-4, ...), and is preferably 100 amino acids or less (eg. 90 amino acids or less, 80 amino acids etc.). The fragment may be as short as 3 amino acids, but is preferably longer (eg. up to 6, 7, 8, 9, 10, 12, 15, 20, 25, 30, 35, 40, 50, 75, or 100 amino acids).

Preferred fragments comprise the Neisserial peptide sequences disclosed in Table I, or sub-sequences thereof. The fragments may be longer than those given in Table I eg. where a fragment in Table I runs from amino acid residue p to residue q of a protein, the invention also relates to fragments from residue (p-1), (p-2), or (p-3) to residue (q+1), (q+2), or (q+3).

The invention also provides polypeptides that are homologous (*ie.* have sequence identity) to these fragments. Depending on the particular fragment, the degree of sequence identity is preferably greater than 50% (*eg.* 60%, 70%, 80%, 90%, 95%, 99% or more). These homologous polypeptides include mutants and allelic variants of the fragments. Identity between the two sequences is preferably determined by the Smith-Waterman homology search algorithm as implemented in the MPSRCH program (Oxford Molecular), using an affine gap search with parameters *gap open penalty*=12 and *gap extension penalty*=1.

The invention also provides proteins comprising one or more of the above-defined fragments.

The invention is subject to the proviso that it does not include within its scope proteins comprising any of the 446 protein sequences disclosed in WO99/24578 (*ie.* the even SEQ IDs: 2, 4, 6, 8, 10, ..., 888, 890, 892 of WO99/24578).

The proteins of the invention can, of course, be prepared by various means (eg. recombinant expression, purification from cell culture, chemical synthesis etc.) and in various forms (eg. native, C-terminal and/or N-terminal fusions etc.). They are preferably prepared in substantially pure form (ie. substantially free from other Neisserial or host cell proteins). Short proteins are preferably produced using chemical peptide synthesis.

According to a further aspect, the invention provides antibodies which recognise the fragments of the invention, with the proviso that the invention does not include within its scope antibodies which recognise one of 446 complete protein sequences in WO99/24578. The antibodies may be polyclonal or, preferably, monoclonal, and may be produced by any suitable means.

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The invention also provides proteins comprising peptide sequences recognised by these antibodies. These peptide sequences will, of course, include fragments of the Neisserial proteins in WO99/24578, but will also include peptides that mimic the antigenic structure of the Neisserial peptides when bound to immunoglobulin.

According to a further aspect, the invention provides nucleic acid encoding the fragments and proteins of the invention, with the proviso that the invention does not include within its scope nucleic acid encoding one of the 446 protein sequences in WO99/24578.

In addition, the invention provides nucleic acid comprising sequences homologous (*ie.* having sequence identity) to these sequences. Furthermore, the invention provides nucleic acid which can hybridise to these sequences, preferably under "high stringency" conditions (*eg.* 65°C in a 0.1xSSC, 0.5% SDS solution).

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It should also be appreciated that the invention provides nucleic acid comprising sequences complementary to those described above (eg. for antisense or probing purposes).

Nucleic acid according to the invention can, of course, be prepared in many ways (eg. by chemical synthesis, from genomic or cDNA libraries, from the organism itself etc.) and can take various forms (eg. single stranded, double stranded, vectors, probes etc.). In addition, the term "nucleic acid" includes DNA and RNA, and also their analogues, such as those containing modified backbones, and also peptide nucleic acids (PNA) etc.

According to a further aspect, the invention provides vectors comprising nucleotide sequences of the invention (eg. expression vectors) and host cells transformed with such vectors.

According to a further aspect, the invention provides compositions comprising protein, antibody, and/or nucleic acid according to the invention. These compositions may be suitable as vaccines, for instance, or as diagnostic reagents, or as immunogenic compositions.

The invention also provides nucleic acid, protein, or antibody according to the invention for use as medicaments (eg. as vaccines or as immunogenic compositions) or as diagnostic reagents. It also provides the use of nucleic acid, protein, or antibody according to the invention in the manufacture of: (i) a medicament for treating or preventing infection due to Neisserial bacteria; (ii) a diagnostic reagent for detecting the presence of Neisserial bacteria or of antibodies raised against Neisserial bacteria; and/or (iii) a reagent which can raise antibodies against Neisserial bacteria. Said Neisserial

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bacteria may be any species or strain (such as *N.gonorrhoeae*) but are preferably *N.meningitidis*, especially strain A or strain B.

The invention also provides a method of treating a patient, comprising administering to the patient a therapeutically effective amount of nucleic acid, protein, and/or antibody according to the invention.

According to further aspects, the invention provides various processes.

A process for producing proteins of the invention is provided, comprising the step of culturing a host cell according to the invention under conditions which induce protein expression.

A process for producing protein or nucleic acid of the invention is provided, wherein the protein or nucleic acid is synthesised in part or in whole using chemical means.

A process for detecting polynucleotides of the invention is provided, comprising the steps of: (a) contacting a nucleic probe according to the invention with a biological sample under hybridizing conditions to form duplexes; and (b) detecting said duplexes.

A process for detecting proteins of the invention is provided, comprising the steps of: (a) contacting an antibody according to the invention with a biological sample under conditions suitable for the formation of an antibody-antigen complexes; and (b) detecting said complexes.

A summary of standard techniques and procedures which may be employed in order to perform the invention (eg. to utilise the disclosed sequences for vaccination or diagnostic purposes) follows. This summary is not a limitation on the invention but, rather, gives examples that may be used, but are not required.

#### General

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The practice of the present invention will employ, unless otherwise indicated, conventional techniques of molecular biology, microbiology, recombinant DNA, and immunology, which are within the skill of the art. Such techniques are explained fully in the literature eg. Sambrook Molecular Cloning; A Laboratory Manual, Second Edition (1989); DNA Cloning, Volumes I and ii (D.N Glover ed. 1985); Oligonucleotide Synthesis (M.J. Gait ed, 1984); Nucleic Acid Hybridization (B.D. Hames & S.J. Higgins eds. 1984); Transcription and Translation (B.D. Hames & S.J. Higgins eds. 1984); Animal Cell Culture (R.I. Freshney ed. 1986); Immobilized Cells and Enzymes (IRL Press, 1986); B. Perbal, A Practical Guide to Molecular Cloning (1984); the Methods in Enzymology series (Academic Press, Inc.), especially volumes 154 & 155; Gene Transfer Vectors for Mammalian Cells (J.H. Miller and M.P. Calos eds. 1987, Cold Spring Harbor Laboratory); Mayer and Walker,

eds. (1987), Immunochemical Methods in Cell and Molecular Biology (Academic Press, London); Scopes, (1987) Protein Purification: Principles and Practice, Second Edition (Springer-Verlag, N.Y.), and Handbook of Experimental Immunology, Volumes I-IV (D.M. Weir and C. C. Blackwell eds 1986).

Standard abbreviations for nucleotides and amino acids are used in this specification.

5 All publications, patents, and patent applications cited herein are incorporated in full by reference.

## <u>Definitions</u>

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A composition containing X is "substantially free of" Y when at least 85% by weight of the total X+Y in the composition is X. Preferably, X comprises at least about 90% by weight of the total of X+Y in the composition, more preferably at least about 95% or even 99% by weight.

The term "comprising" means "including" as well as "consisting" eg. a composition "comprising" X may consist exclusively of X or may include something additional to X, such as X+Y.

The term "antigenic determinant" includes B-cell epitopes and T-cell epitopes.

The term "heterologous" refers to two biological components that are not found together in nature. The components may be host cells, genes, or regulatory regions, such as promoters. Although the heterologous components are not found together in nature, they can function together, as when a promoter heterologous to a gene is operably linked to the gene. Another example is where a Neisserial sequence is heterologous to a mouse host cell. A further examples would be two epitopes from the same or different proteins which have been assembled in a single protein in an arrangement not found in nature.

An "origin of replication" is a polynucleotide sequence that initiates and regulates replication of polynucleotides, such as an expression vector. The origin of replication behaves as an autonomous unit of polynucleotide replication within a cell, capable of replication under its own control. An origin of replication may be needed for a vector to replicate in a particular host cell. With certain origins of replication, an expression vector can be reproduced at a high copy number in the presence of the appropriate proteins within the cell. Examples of origins are the autonomously replicating sequences, which are effective in yeast; and the viral T-antigen, effective in COS-7 cells.

## Expression systems

The Neisserial nucleotide sequences can be expressed in a variety of different expression systems; for example those used with mammalian cells, baculoviruses, plants, bacteria, and yeast.

## i. Mammalian Systems

Mammalian expression systems are known in the art. A mammalian promoter is any DNA sequence capable of binding mammalian RNA polymerase and initiating the downstream (3') transcription of a coding sequence

(eg. structural gene) into mRNA. A promoter will have a transcription initiating region, which is usually placed proximal to the 5' end of the coding sequence, and a TATA box, usually located 25-30 base pairs (bp) upstream of the transcription initiation site. The TATA box is thought to direct RNA polymerase II to begin RNA synthesis at the correct site. A mammalian promoter will also contain an upstream promoter element, usually located within 100 to 200 bp upstream of the TATA box. An upstream promoter element determines the rate at which transcription is initiated and can act in either orientation [Sambrook et al. (1989) "Expression of Cloned Genes in Mammalian Cells." In Molecular Cloning: A Laboratory Manual, 2nd ed.].

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Mammalian viral genes are often highly expressed and have a broad host range; therefore sequences encoding mammalian viral genes provide particularly useful promoter sequences. Examples include the SV40 early promoter, mouse mammary tumor virus LTR promoter, adenovirus major late promoter (Ad MLP), and herpes simplex virus promoter. In addition, sequences derived from non-viral genes, such as the murine metallotheionein gene, also provide useful promoter sequences. Expression may be either constitutive or regulated (inducible), depending on the promoter can be induced with glucocorticoid in hormone-responsive cells.

The presence of an enhancer element (enhancer), combined with the promoter elements described above, will usually increase expression levels. An enhancer is a regulatory DNA sequence that can stimulate transcription up to 1000-fold when linked to homologous or heterologous promoters, with synthesis beginning at the normal RNA start site. Enhancers are also active when they are placed upstream or downstream from the transcription initiation site, in either normal or flipped orientation, or at a distance of more than 1000 nucleotides from the promoter [Maniatis et al. (1987) *Science 236*:1237; Alberts et al. (1989) *Molecular Biology of the Cell*, 2nd ed.]. Enhancer elements derived from viruses may be particularly useful, because they usually have a broader host range. Examples include the SV40 early gene enhancer [Dijkema et al (1985) *EMBO J. 4*:761] and the enhancer/promoters derived from the long terminal repeat (LTR) of the Rous Sarcoma Virus [Gorman et al. (1982b) *Proc. Natl. Acad. Sci. 79*:6777] and from human cytomegalovirus [Boshart et al. (1985) *Cell 41*:521]. Additionally, some enhancers are regulatable and become active only in the presence of an inducer, such as a hormone or metal ion [Sassone-Corsi and Borelli (1986) *Trends Genet. 2*:215; Maniatis et al. (1987) *Science* 236:1237].

A DNA molecule may be expressed intracellularly in mammalian cells. A promoter sequence may be directly linked with the DNA molecule, in which case the first amino acid at the N-terminus of the recombinant protein will always be a methionine, which is encoded by the ATG start codon. If desired, the N-terminus may be cleaved from the protein by *in vitro* incubation with cyanogen bromide.

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Alternatively, foreign proteins can also be secreted from the cell into the growth media by creating chimeric DNA molecules that encode a fusion protein comprised of a leader sequence fragment that provides for secretion of the foreign protein in mammalian cells. Preferably, there are processing sites encoded between the leader fragment and the foreign gene that can be cleaved either *in vivo* or *in vitro*. The leader sequence fragment usually encodes a signal peptide comprised of hydrophobic amino acids which direct the secretion of the protein from the cell. The adenovirus triparite leader is an example of a leader sequence that provides for secretion of a foreign protein in mammalian cells.

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Usually, transcription termination and polyadenylation sequences recognized by mammalian cells are regulatory regions located 3' to the translation stop codon and thus, together with the promoter elements, flank the coding sequence. The 3' terminus of the mature mRNA is formed by site-specific post-transcriptional cleavage and polyadenylation [Birnstiel et al. (1985) *Cell 41*:349; Proudfoot and Whitelaw (1988) "Termination and 3' end processing of eukaryotic RNA. In *Transcription and splicing* (ed. B.D. Hames and D.M. Glover); Proudfoot (1989) *Trends Biochem. Sci. 14*:105]. These sequences direct the transcription of an mRNA which can be translated into the polypeptide encoded by the DNA. Examples of transcription terminater/polyadenylation signals include those derived from SV40 [Sambrook et al (1989) "Expression of cloned genes in cultured mammalian cells." In *Molecular Cloning: A Laboratory Manual*].

Usually, the above described components, comprising a promoter, polyadenylation signal, and transcription termination sequence are put together into expression constructs. Enhancers, introns with functional splice donor and acceptor sites, and leader sequences may also be included in an expression construct, if desired. Expression constructs are often maintained in a replicon, such as an extrachromosomal element (eg. plasmids) capable of stable maintenance in a host, such as mammalian cells or bacteria. Mammalian replication systems include those derived from animal viruses, which require trans-acting factors to replicate. For example, plasmids containing the replication systems of papovaviruses, such as SV40 [Gluzman (1981) Cell 23:175] or polyomavirus, replicate to extremely high copy number in the presence of the appropriate viral T antigen. Additional examples of mammalian replicons include those derived from bovine papillomavirus and Epstein-Barr virus. Additionally, the replicon may have two replicaton systems, thus allowing it to be maintained, for example, in mammalian cells for expression and in a prokaryotic host for cloning and amplification. Examples of such mammalian-bacteria shuttle vectors include pMT2 [Kaufman et al. (1989) Mol. Cell. Biol. 9:946] and pHEBO [Shimizu et al. (1986) Mol. Cell. Biol. 6:1074].

The transformation procedure used depends upon the host to be transformed. Methods for introduction of heterologous polynucleotides into mammalian cells are known in the art and include dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion,

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electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei.

Mammalian cell lines available as hosts for expression are known in the art and include many immortalized cell lines available from the American Type Culture Collection (ATCC), including but not limited to, Chinese hamster ovary (CHO) cells, HeLa cells, baby hamster kidney (BHK) cells, monkey kidney cells (COS), human hepatocellular carcinoma cells (eg. Hep G2), and a number of other cell lines.

## ii. Baculovirus Systems

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The polynucleotide encoding the protein can also be inserted into a suitable insect expression vector, and is operably linked to the control elements within that vector. Vector construction employs techniques which are known in the art. Generally, the components of the expression system include a transfer vector, usually a bacterial plasmid, which contains both a fragment of the baculovirus genome, and a convenient restriction site for insertion of the heterologous gene or genes to be expressed; a wild type baculovirus with a sequence homologous to the baculovirus-specific fragment in the transfer vector (this allows for the homologous recombination of the heterologous gene in to the baculovirus genome); and appropriate insect host cells and growth media.

After inserting the DNA sequence encoding the protein into the transfer vector, the vector and the wild type viral genome are transfected into an insect host cell where the vector and viral genome are allowed to recombine. The packaged recombinant virus is expressed and recombinant plaques are identified and purified. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, *inter alia*, Invitrogen, San Diego CA ("MaxBac" kit). These techniques are generally known to those skilled in the art and fully described in Summers and Smith, *Texas Agricultural Experiment Station Bulletin No. 1555* (1987) (hereinafter "Summers and Smith").

Prior to inserting the DNA sequence encoding the protein into the baculovirus genome, the above described components, comprising a promoter, leader (if desired), coding sequence of interest, and transcription termination sequence, are usually assembled into an intermediate transplacement construct (transfer vector). This construct may contain a single gene and operably linked regulatory elements; multiple genes, each with its owned set of operably linked regulatory elements; or multiple genes, regulated by the same set of regulatory elements. Intermediate transplacement constructs are often maintained in a replicon, such as an extrachromosomal element (eg. plasmids) capable of stable maintenance in a host, such as a bacterium. The replicon will have a replication system, thus allowing it to be maintained in a suitable host for cloning and amplification.

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Currently, the most commonly used transfer vector for introducing foreign genes into AcNPV is pAc373. Many other vectors, known to those of skill in the art, have also been designed. These include, for example, pVL985 (which alters the polyhedrin start codon from ATG to ATT, and which introduces a BamHI cloning site 32 basepairs downstream from the ATT; see Luckow and Summers, *Virology* (1989) 17:31.

The plasmid usually also contains the polyhedrin polyadenylation signal (Miller et al. (1988) *Ann. Rev. Microbiol.*, 42:177) and a prokaryotic ampicillin-resistance (*amp*) gene and origin of replication for selection and propagation in *E. coli*.

Baculovirus transfer vectors usually contain a baculovirus promoter. A baculovirus promoter is any DNA sequence capable of binding a baculovirus RNA polymerase and initiating the downstream (5' to 3') transcription of a coding sequence (eg. structural gene) into mRNA. A promoter will have a transcription initiation region which is usually placed proximal to the 5' end of the coding sequence. This transcription initiation region usually includes an RNA polymerase binding site and a transcription initiation site. A baculovirus transfer vector may also have a second domain called an enhancer, which, if present, is usually distal to the structural gene. Expression may be either regulated or constitutive.

Structural genes, abundantly transcribed at late times in a viral infection cycle, provide particularly useful promoter sequences. Examples include sequences derived from the gene encoding the viral polyhedron protein, Friesen et al., (1986) "The Regulation of Baculovirus Gene Expression," in: *The Molecular Biology of Baculoviruses* (ed. Walter Doerfler); EPO Publ. Nos. 127 839 and 155 476; and the gene encoding the p10 protein, Vlak et al., (1988), *J. Gen. Virol.* 69:765.

DNA encoding suitable signal sequences can be derived from genes for secreted insect or baculovirus proteins, such as the baculovirus polyhedrin gene (Carbonell et al. (1988) *Gene*, 73:409). Alternatively, since the signals for mammalian cell posttranslational modifications (such as signal peptide cleavage, proteolytic cleavage, and phosphorylation) appear to be recognized by insect cells, and the signals required for secretion and nuclear accumulation also appear to be conserved between the invertebrate cells and vertebrate cells, leaders of non-insect origin, such as those derived from genes encoding human α-interferon, Maeda et al., (1985), *Nature* 315:592; human gastrin-releasing peptide, Lebacq-Verheyden et al., (1988), *Molec. Cell. Biol.* 8:3129; human IL-2, Smith et al., (1985) *Proc. Nat'l Acad. Sci. USA*, 82:8404; mouse IL-3, (Miyajima et al., (1987) *Gene* 58:273; and human glucocerebrosidase, Martin et al. (1988) *DNA*, 7:99, can also be used to provide for secretion in insects.

A recombinant polypeptide or polyprotein may be expressed intracellularly or, if it is expressed with the proper regulatory sequences, it can be secreted. Good intracellular expression of nonfused foreign proteins usually requires heterologous genes that ideally have a short leader sequence containing suitable translation initiation

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signals preceding an ATG start signal. If desired, methionine at the N-terminus may be cleaved from the mature protein by *in vitro* incubation with cyanogen bromide.

Alternatively, recombinant polyproteins or proteins which are not naturally secreted can be secreted from the insect cell by creating chimeric DNA molecules that encode a fusion protein comprised of a leader sequence fragment that provides for secretion of the foreign protein in insects. The leader sequence fragment usually encodes a signal peptide comprised of hydrophobic amino acids which direct the translocation of the protein into the endoplasmic reticulum.

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After insertion of the DNA sequence and/or the gene encoding the expression product precursor of the protein, an insect cell host is co-transformed with the heterologous DNA of the transfer vector and the genomic DNA of wild type baculovirus -- usually by co-transfection. The promoter and transcription termination sequence of the construct will usually comprise a 2-5kb section of the baculovirus genome. Methods for introducing heterologous DNA into the desired site in the baculovirus virus are known in the art. (See Summers and Smith *supra*; Ju et al. (1987); Smith et al., *Mol. Cell. Biol.* (1983) 3:2156; and Luckow and Summers (1989)). For example, the insertion can be into a gene such as the polyhedrin gene, by homologous double crossover recombination; insertion can also be into a restriction enzyme site engineered into the desired baculovirus gene. Miller et al., (1989), *Bioessays 4*:91.The DNA sequence, when cloned in place of the polyhedrin gene in the expression vector, is flanked both 5' and 3' by polyhedrin-specific sequences and is positioned downstream of the polyhedrin promoter.

The newly formed baculovirus expression vector is subsequently packaged into an infectious recombinant baculovirus. Homologous recombination occurs at low frequency (between about 1% and about 5%); thus, the majority of the virus produced after cotransfection is still wild-type virus. Therefore, a method is necessary to identify recombinant viruses. An advantage of the expression system is a visual screen allowing recombinant viruses to be distinguished. The polyhedrin protein, which is produced by the native virus, is produced at very high levels in the nuclei of infected cells at late times after viral infection. Accumulated polyhedrin protein forms occlusion bodies that also contain embedded particles. These occlusion bodies, up to 15 µm in size, are highly refractile, giving them a bright shiny appearance that is readily visualized under the light microscope. Cells infected with recombinant viruses lack occlusion bodies. To distinguish recombinant virus from wild-type virus, the transfection supernatant is plaqued onto a monolayer of insect cells by techniques known to those skilled in the art. Namely, the plaques are screened under the light microscope for the presence (indicative of wild-type virus) or absence (indicative of recombinant virus) of occlusion bodies. "Current Protocols in Microbiology" Vol. 2 (Ausubel et al. eds) at 16.8 (Supp. 10, 1990); Summers and Smith, *supra*; Miller et al. (1989).

Recombinant baculovirus expression vectors have been developed for infection into several insect cells. For example, recombinant baculoviruses have been developed for, *inter alia: Aedes aegypti , Autographa californica, Bombyx mori, Drosophila melanogaster, Spodoptera frugiperda*, and *Trichoplusia ni* (WO 89/046699; Carbonell et al., (1985) *J. Virol.* 56:153; Wright (1986) *Nature* 321:718; Smith et al., (1983) *Mol. Cell. Biol.* 3:2156; and see generally, Fraser, *et al.* (1989) *In Vitro Cell. Dev. Biol.* 25:225).

Cells and cell culture media are commercially available for both direct and fusion expression of heterologous polypeptides in a baculovirus/expression system; cell culture technology is generally known to those skilled in the art. *See, eg.* Summers and Smith *supra*.

The modified insect cells may then be grown in an appropriate nutrient medium, which allows for stable maintenance of the plasmid(s) present in the modified insect host. Where the expression product gene is under inducible control, the host may be grown to high density, and expression induced. Alternatively, where expression is constitutive, the product will be continuously expressed into the medium and the nutrient medium must be continuously circulated, while removing the product of interest and augmenting depleted nutrients. The product may be purified by such techniques as chromatography, eg. HPLC, affinity chromatography, ion exchange chromatography, etc.; electrophoresis; density gradient centrifugation; solvent extraction, or the like. As appropriate, the product may be further purified, as required, so as to remove substantially any insect proteins which are also secreted in the medium or result from lysis of insect cells, so as to provide a product which is at least substantially free of host debris, eg. proteins, lipids and polysaccharides.

In order to obtain protein expression, recombinant host cells derived from the transformants are incubated under conditions which allow expression of the recombinant protein encoding sequence. These conditions will vary, dependent upon the host cell selected. However, the conditions are readily ascertainable to those of ordinary skill in the art, based upon what is known in the art.

## iii. Plant Systems

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There are many plant cell culture and whole plant genetic expression systems known in the art. Exemplary plant cellular genetic expression systems include those described in patents, such as: US 5,693,506; US 5,659,122; and US 5,608,143. Additional examples of genetic expression in plant cell culture has been described by Zenk, *Phytochemistry* 30:3861-3863 (1991). Descriptions of plant protein signal peptides may be found in addition to the references described above in Vaulcombe et al., *Mol. Gen. Genet.* 209:33-40 (1987); Chandler et al., *Plant Molecular Biology* 3:407-418 (1984); Rogers, *J. Biol. Chem.* 260:3731-3738 (1985); Rothstein et al., *Gene* 55:353-356 (1987); Whittier et al., Nucleic Acids Research 15:2515-2535 (1987); Wirsel et al., *Molecular Microbiology* 3:3-14 (1989); Yu et al., *Gene* 122:247-253 (1992). A description of the regulation of plant gene expression by the phytohormone, gibberellic acid and secreted enzymes induced by gibberellic acid can be found

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in R.L. Jones and J. MacMillin, Gibberellins: in: *Advanced Plant Physiology*,. Malcolm B. Wilkins, ed., 1984 Pitman Publishing Limited, London, pp. 21-52. References that describe other metabolically-regulated genes: Sheen, *Plant Cell*, 2:1027-1038(1990); Maas et al., *EMBO J.* 9:3447-3452 (1990); Benkel and Hickey, *Proc. Natl. Acad. Sci.* 84:1337-1339 (1987)

Typically, using techniques known in the art, a desired polynucleotide sequence is inserted into an expression cassette comprising genetic regulatory elements designed for operation in plants. The expression cassette is inserted into a desired expression vector with companion sequences upstream and downstream from the expression cassette suitable for expression in a plant host. The companion sequences will be of plasmid or viral origin and provide necessary characteristics to the vector to permit the vectors to move DNA from an original cloning host, such as bacteria, to the desired plant host. The basic bacterial/plant vector construct will preferably provide a broad host range prokaryote replication origin; a prokaryote selectable marker; and, for Agrobacterium transformations, T DNA sequences for Agrobacterium-mediated transfer to plant chromosomes. Where the heterologous gene is not readily amenable to detection, the construct will preferably also have a selectable marker gene suitable for determining if a plant cell has been transformed. A general review of suitable markers, for example for the members of the grass family, is found in Wilmink and Dons, 1993, *Plant Mol. Biol. Reptr.*, 11(2):165-185.

Sequences suitable for permitting integration of the heterologous sequence into the plant genome are also recommended. These might include transposon sequences and the like for homologous recombination as well as Ti sequences which permit random insertion of a heterologous expression cassette into a plant genome. Suitable prokaryote selectable markers include resistance toward antibiotics such as ampicillin or tetracycline. Other DNA sequences encoding additional functions may also be present in the vector, as is known in the art.

The nucleic acid molecules of the subject invention may be included into an expression cassette for expression of the protein(s) of interest. Usually, there will be only one expression cassette, although two or more are feasible. The recombinant expression cassette will contain in addition to the heterologous protein encoding sequence the following elements, a promoter region, plant 5' untranslated sequences, initiation codon depending upon whether or not the structural gene comes equipped with one, and a transcription and translation termination sequence. Unique restriction enzyme sites at the 5' and 3' ends of the cassette allow for easy insertion into a pre-existing vector.

A heterologous coding sequence may be for any protein relating to the present invention. The sequence encoding the protein of interest will encode a signal peptide which allows processing and translocation of the protein, as appropriate, and will usually lack any sequence which might result in the binding of the desired protein of the invention to a membrane. Since, for the most part, the transcriptional initiation region will be for

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a gene which is expressed and translocated during germination, by employing the signal peptide which provides for translocation, one may also provide for translocation of the protein of interest. In this way, the protein(s) of interest will be translocated from the cells in which they are expressed and may be efficiently harvested. Typically secretion in seeds are across the aleurone or scutellar epithelium layer into the endosperm of the seed. While it is not required that the protein be secreted from the cells in which the protein is produced, this facilitates the isolation and purification of the recombinant protein.

Since the ultimate expression of the desired gene product will be in a eucaryotic cell it is desirable to determine whether any portion of the cloned gene contains sequences which will be processed out as introns by the host's splicosome machinery. If so, site-directed mutagenesis of the "intron" region may be conducted to prevent losing a portion of the genetic message as a false intron code, Reed and Maniatis, *Cell* 41:95-105, 1985.

The vector can be microinjected directly into plant cells by use of micropipettes to mechanically transfer the recombinant DNA. Crossway, *Mol. Gen. Genet*, 202:179-185, 1985. The genetic material may also be transferred into the plant cell by using polyethylene glycol, Krens, et al., *Nature*, 296, 72-74, 1982. Another method of introduction of nucleic acid segments is high velocity ballistic penetration by small particles with the nucleic acid either within the matrix of small beads or particles, or on the surface, Klein, et al., *Nature*, 327, 70-73, 1987 and Knudsen and Muller, 1991, *Planta*, 185:330-336 teaching particle bombardment of barley endosperm to create transgenic barley. Yet another method of introduction would be fusion of protoplasts with other entities, either minicells, cells, lysosomes or other fusible lipid-surfaced bodies, Fraley, et al., *Proc. Natl. Acad. Sci. USA*, 79, 1859-1863, 1982.

The vector may also be introduced into the plant cells by electroporation. (Fromm et al., *Proc. Natl Acad. Sci. USA* 82:5824, 1985). In this technique, plant protoplasts are electroporated in the presence of plasmids containing the gene construct. Electrical impulses of high field strength reversibly permeabilize biomembranes allowing the introduction of the plasmids. Electroporated plant protoplasts reform the cell wall, divide, and form plant callus.

All plants from which protoplasts can be isolated and cultured to give whole regenerated plants can be transformed by the present invention so that whole plants are recovered which contain the transferred gene. It is known that practically all plants can be regenerated from cultured cells or tissues, including but not limited to all major species of sugarcane, sugar beet, cotton, fruit and other trees, legumes and vegetables. Some suitable plants include, for example, species from the genera Fragaria, Lotus, Medicago, Onobrychis, Trifolium, Trigonella, Vigna, Citrus, Linum, Geranium, Manihot, Daucus, Arabidopsis, Brassica, Raphanus, Sinapis, Atropa, Capsicum, Datura, Hyoscyamus, Lycopersion, Nicotiana, Solanum, Petunia, Digitalis, Majorana, Cichorium, Helianthus, Lactuca, Bromus, Asparagus, Antirrhinum, Hererocallis, Nemesia, Pelargonium,

Panicum, Pennisetum, Ranunculus, Senecio, Salpiglossis, Cucumis, Browaalia, Glycine, Lolium, Zea, Triticum, Sorghum, and Datura.

Means for regeneration vary from species to species of plants, but generally a suspension of transformed protoplasts containing copies of the heterologous gene is first provided. Callus tissue is formed and shoots may be induced from callus and subsequently rooted. Alternatively, embryo formation can be induced from the protoplast suspension. These embryos germinate as natural embryos to form plants. The culture media will generally contain various amino acids and hormones, such as auxin and cytokinins. It is also advantageous to add glutamic acid and proline to the medium, especially for such species as corn and alfalfa. Shoots and roots normally develop simultaneously. Efficient regeneration will depend on the medium, on the genotype, and on the history of the culture. If these three variables are controlled, then regeneration is fully reproducible and repeatable.

In some plant cell culture systems, the desired protein of the invention may be excreted or alternatively, the protein may be extracted from the whole plant. Where the desired protein of the invention is secreted into the medium, it may be collected. Alternatively, the embryos and embryoless-half seeds or other plant tissue may be mechanically disrupted to release any secreted protein between cells and tissues. The mixture may be suspended in a buffer solution to retrieve soluble proteins. Conventional protein isolation and purification methods will be then used to purify the recombinant protein. Parameters of time, temperature pH, oxygen, and volumes will be adjusted through routine methods to optimize expression and recovery of heterologous protein.

## iv. Bacterial Systems

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Bacterial expression techniques are known in the art. A bacterial promoter is any DNA sequence capable of binding bacterial RNA polymerase and initiating the downstream (3') transcription of a coding sequence (eg. structural gene) into mRNA. A promoter will have a transcription initiation region which is usually placed proximal to the 5' end of the coding sequence. This transcription initiation region usually includes an RNA polymerase binding site and a transcription initiation site. A bacterial promoter may also have a second domain called an operator, that may overlap an adjacent RNA polymerase binding site at which RNA synthesis begins. The operator permits negative regulated (inducible) transcription, as a gene repressor protein may bind the operator and thereby inhibit transcription of a specific gene. Constitutive expression may occur in the absence of negative regulatory elements, such as the operator. In addition, positive regulation may be achieved by a gene activator protein binding sequence, which, if present is usually proximal (5') to the RNA polymerase binding sequence. An example of a gene activator protein is the catabolite activator protein (CAP), which helps initiate transcription of the lac operon in Escherichia coli (E. coli) [Raibaud et al. (1984) Annu. Rev. Genet. 18:173]. Regulated expression may therefore be either positive or negative, thereby either enhancing or reducing transcription.

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Sequences encoding metabolic pathway enzymes provide particularly useful promoter sequences. Examples include promoter sequences derived from sugar metabolizing enzymes, such as galactose, lactose (*lac*) [Chang *et al.* (1977) *Nature 198*:1056], and maltose. Additional examples include promoter sequences derived from biosynthetic enzymes such as tryptophan (*trp*) [Goeddel *et al.* (1980) *Nuc. Acids Res. 8*:4057; Yelverton *et al.* (1981) *Nucl. Acids Res. 9*:731; US patent 4,738,921; EP-A-0036776 and EP-A-0121775]. The g-laotamase (*bla*) promoter system [Weissmann (1981) "The cloning of interferon and other mistakes." In *Interferon 3* (ed. I. Gresser)], bacteriophage lambda PL [Shimatake *et al.* (1981) *Nature 292*:128] and T5 [US patent 4,689,406] promoter systems also provide useful promoter sequences.

In addition, synthetic promoters which do not occur in nature also function as bacterial promoters. For example, transcription activation sequences of one bacterial or bacteriophage promoter may be joined with the operon sequences of another bacterial or bacteriophage promoter, creating a synthetic hybrid promoter [US patent 4,551,433]. For example, the *tac* promoter is a hybrid *trp-lac* promoter comprised of both *trp* promoter and *lac* operon sequences that is regulated by the *lac* repressor [Amann *et al.* (1983) *Gene 25*:167; de Boer *et al.* (1983) *Proc. Natl. Acad. Sci. 80*:21]. Furthermore, a bacterial promoter can include naturally occurring promoters of non-bacterial origin that have the ability to bind bacterial RNA polymerase and initiate transcription. A naturally occurring promoter of non-bacterial origin can also be coupled with a compatible RNA polymerase to produce high levels of expression of some genes in prokaryotes. The bacteriophage T7 RNA polymerase/promoter system is an example of a coupled promoter system [Studier *et al.* (1986) *J. Mol. Biol. 189*:113; Tabor *et al.* (1985) *Proc Natl. Acad. Sci. 82*:1074]. In addition, a hybrid promoter can also be comprised of a bacteriophage promoter and an *E. coli* operator region (EPO-A-0 267 851).

In addition to a functioning promoter sequence, an efficient ribosome binding site is also useful for the expression of foreign genes in prokaryotes. In *E. coli*, the ribosome binding site is called the Shine-Dalgarno (SD) sequence and includes an initiation codon (ATG) and a sequence 3-9 nucleotides in length located 3-11 nucleotides upstream of the initiation codon [Shine *et al.* (1975) *Nature 254*:34]. The SD sequence is thought to promote binding of mRNA to the ribosome by the pairing of bases between the SD sequence and the 3' and of *E. coli* 16S rRNA [Steitz *et al.* (1979) "Genetic signals and nucleotide sequences in messenger RNA." In *Biological Regulation and Development: Gene Expression* (ed. R.F. Goldberger)]. To express eukaryotic genes and prokaryotic genes with weak ribosome-binding site [Sambrook *et al.* (1989) "Expression of cloned genes in Escherichia coli." In *Molecular Cloning: A Laboratory Manual*].

A DNA molecule may be expressed intracellularly. A promoter sequence may be directly linked with the DNA molecule, in which case the first amino acid at the N-terminus will always be a methionine, which is encoded by the ATG start codon. If desired, methionine at the N-terminus may be cleaved from the protein by *in vitro* 

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incubation with cyanogen bromide or by either *in vivo* on *in vitro* incubation with a bacterial methionine N-terminal peptidase (EPO-A-0 219 237).

Fusion proteins provide an alternative to direct expression. Usually, a DNA sequence encoding the N-terminal portion of an endogenous bacterial protein, or other stable protein, is fused to the 5' end of heterologous coding sequences. Upon expression, this construct will provide a fusion of the two amino acid sequences. For example, the bacteriophage lambda cell gene can be linked at the 5' terminus of a foreign gene and expressed in bacteria. The resulting fusion protein preferably retains a site for a processing enzyme (factor Xa) to cleave the bacteriophage protein from the foreign gene [Nagai et al. (1984) Nature 309:810]. Fusion proteins can also be made with sequences from the lacZ [Jia et al. (1987) Gene 60:197], trpE [Allen et al. (1987) J. Biotechnol. 5:93; Makoff et al. (1989) J. Gen. Microbiol. 135:11], and Chey [EP-A-0 324 647] genes. The DNA sequence at the junction of the two amino acid sequences may or may not encode a cleavable site. Another example is a ubiquitin fusion protein. Such a fusion protein is made with the ubiquitin region that preferably retains a site for a processing enzyme (eg. ubiquitin specific processing-protease) to cleave the ubiquitin from the foreign protein. Through this method, native foreign protein can be isolated [Miller et al. (1989) Bio/Technology 7:698].

Alternatively, foreign proteins can also be secreted from the cell by creating chimeric DNA molecules that encode a fusion protein comprised of a signal peptide sequence fragment that provides for secretion of the foreign protein in bacteria [US patent 4,336,336]. The signal sequence fragment usually encodes a signal peptide comprised of hydrophobic amino acids which direct the secretion of the protein from the cell. The protein is either secreted into the growth media (gram-positive bacteria) or into the periplasmic space, located between the inner and outer membrane of the cell (gram-negative bacteria). Preferably there are processing sites, which can be cleaved either *in vivo* or *in vitro* encoded between the signal peptide fragment and the foreign gene.

DNA encoding suitable signal sequences can be derived from genes for secreted bacterial proteins, such as the *E. coli* outer membrane protein gene (*ompA*) [Masui *et al.* (1983), in: *Experimental Manipulation of Gene Expression*; Ghrayeb *et al.* (1984) *EMBO J. 3:*2437] and the *E. coli* alkaline phosphatase signal sequence (*phoA*) [Oka *et al.* (1985) *Proc. Natl. Acad. Sci. 82:*7212]. As an additional example, the signal sequence of the alphaamylase gene from various Bacillus strains can be used to secrete heterologous proteins from *B. subtilis* [Palva *et al.* (1982) *Proc. Natl. Acad. Sci. USA 79:*5582; EP-A-0 244 042].

Usually, transcription termination sequences recognized by bacteria are regulatory regions located 3' to the translation stop codon, and thus together with the promoter flank the coding sequence. These sequences direct the transcription of an mRNA which can be translated into the polypeptide encoded by the DNA. Transcription termination sequences frequently include DNA sequences of about 50 nucleotides capable of forming stem loop

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structures that aid in terminating transcription. Examples include transcription termination sequences derived from genes with strong promoters, such as the *trp* gene in *E. coli* as well as other biosynthetic genes.

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Usually, the above described components, comprising a promoter, signal sequence (if desired), coding sequence of interest, and transcription termination sequence, are put together into expression constructs. Expression constructs are often maintained in a replicon, such as an extrachromosomal element (*eg.* plasmids) capable of stable maintenance in a host, such as bacteria. The replicon will have a replication system, thus allowing it to be maintained in a prokaryotic host either for expression or for cloning and amplification. In addition, a replicon may be either a high or low copy number plasmid. A high copy number plasmid will generally have a copy number ranging from about 5 to about 200, and usually about 10 to about 150. A host containing a high copy number plasmid will preferably contain at least about 10, and more preferably at least about 20 plasmids. Either a high or low copy number vector may be selected, depending upon the effect of the vector and the foreign protein on the host.

Alternatively, the expression constructs can be integrated into the bacterial genome with an integrating vector. Integrating vectors usually contain at least one sequence homologous to the bacterial chromosome that allows the vector to integrate. Integrations appear to result from recombinations between homologous DNA in the vector and the bacterial chromosome. For example, integrating vectors constructed with DNA from various Bacillus strains integrate into the Bacillus chromosome (EP-A- 0 127 328). Integrating vectors may also be comprised of bacteriophage or transposon sequences.

Usually, extrachromosomal and integrating expression constructs may contain selectable markers to allow for the selection of bacterial strains that have been transformed. Selectable markers can be expressed in the bacterial host and may include genes which render bacteria resistant to drugs such as ampicillin, chloramphenicol, erythromycin, kanamycin (neomycin), and tetracycline [Davies *et al.* (1978) *Annu. Rev. Microbiol. 32*:469]. Selectable markers may also include biosynthetic genes, such as those in the histidine, tryptophan, and leucine biosynthetic pathways.

Alternatively, some of the above described components can be put together in transformation vectors. Transformation vectors are usually comprised of a selectable market that is either maintained in a replicon or developed into an integrating vector, as described above.

Expression and transformation vectors, either extra-chromosomal replicons or integrating vectors, have been developed for transformation into many bacteria. For example, expression vectors have been developed for, *inter alia*, the following bacteria: Bacillus subtilis [Palva *et al.* (1982) *Proc. Natl. Acad. Sci. USA 79*:5582; EP-A-0 036 259 and EP-A-0 063 953; WO 84/04541], Escherichia coli [Shimatake *et al.* (1981) *Nature 292*:128; Amann *et al.* (1985) *Gene 40*:183; Studier *et al.* (1986) *J. Mol. Biol. 189*:113; EP-A-0 036 776,EP-A-0 136 829

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and EP-A-0 136 907], Streptococcus cremoris [Powell et al. (1988) Appl. Environ. Microbiol. 54:655]; Streptococcus lividans [Powell et al. (1988) Appl. Environ. Microbiol. 54:655], Streptomyces lividans [US patent 4,745,056].

Methods of introducing exogenous DNA into bacterial hosts are well-known in the art, and usually include either the transformation of bacteria treated with CaCl<sub>2</sub> or other agents, such as divalent cations and DMSO. DNA can also be introduced into bacterial cells by electroporation. Transformation procedures usually vary with the bacterial species to be transformed. See eg. [Masson et al. (1989) FEMS Microbiol. Lett. 60:273; Palva et al. (1982) Proc. Natl. Acad. Sci. USA 79:5582; EP-A-0 036 259 and EP-A-0 063 953; WO 84/04541, Bacillus], [Miller et al. (1988) Proc. Natl. Acad. Sci. 85:856; Wang et al. (1990) J. Bacteriol. 172:949, Campylobacter], [Cohen et al. (1973) Proc. Natl. Acad. Sci. 69:2110; Dower et al. (1988) Nucleic Acids Res. 16:6127; Kushner (1978) "An improved method for transformation of Escherichia coli with ColE1-derived plasmids. In Genetic Engineering: Proceedings of the International Symposium on Genetic Engineering (eds. H.W. Boyer and S. Nicosia); Mandel et al. (1970) J. Mol. Biol. 53:159; Taketo (1988) Biochim. Biophys. Acta 949:318; Escherichia], [Chassy et al. (1987) FEMS Microbiol. Lett. 44:173 Lactobacillus]; [Fiedler et al. (1988) Anal. Biochem 170:38, Pseudomonas]; [Augustin et al. (1990) FEMS Microbiol. Lett. 66:203, Staphylococcus], [Barany et al. (1980) J. Bacteriol. 144:698; Harlander (1987) "Transformation of Streptococcus lactis by electroporation, in: Streptococcal Genetics (ed. J. Ferretti and R. Curtiss III); Perry et al. (1981) Infect. Immun. 32:1295; Powell et al. (1988) Appl. Environ. Microbiol. 54:655; Somkuti et al. (1987) Proc. 4th Evr. Cong. Biotechnology 1:412, Streptococcus].

## 20 <u>v. Yeast Expression</u>

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Yeast expression systems are also known to one of ordinary skill in the art. A yeast promoter is any DNA sequence capable of binding yeast RNA polymerase and initiating the downstream (3') transcription of a coding sequence (eg. structural gene) into mRNA. A promoter will have a transcription initiation region which is usually placed proximal to the 5' end of the coding sequence. This transcription initiation region usually includes an RNA polymerase binding site (the "TATA Box") and a transcription initiation site. A yeast promoter may also have a second domain called an upstream activator sequence (UAS), which, if present, is usually distal to the structural gene. The UAS permits regulated (inducible) expression. Constitutive expression occurs in the absence of a UAS. Regulated expression may be either positive or negative, thereby either enhancing or reducing transcription.

Yeast is a fermenting organism with an active metabolic pathway, therefore sequences encoding enzymes in the metabolic pathway provide particularly useful promoter sequences. Examples include alcohol dehydrogenase (ADH) (EP-A-0 284 044), enolase, glucokinase, glucose-6-phosphate isomerase, glyceraldehyde-3-phosphate-dehydrogenase (GAP or GAPDH), hexokinase, phosphofructokinase, 3-phosphoglycerate mutase, and pyruvate

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kinase (PyK) (EPO-A-0 329 203). The yeast *PHO5* gene, encoding acid phosphatase, also provides useful promoter sequences [Myanohara *et al.* (1983) *Proc. Natl. Acad. Sci. USA 80*:1].

In addition, synthetic promoters which do not occur in nature also function as yeast promoters. For example, UAS sequences of one yeast promoter may be joined with the transcription activation region of another yeast promoter, creating a synthetic hybrid promoter. Examples of such hybrid promoters include the ADH regulatory sequence linked to the GAP transcription activation region (US Patent Nos. 4,876,197 and 4,880,734). Other examples of hybrid promoters include promoters which consist of the regulatory sequences of either the *ADH2*, *GAL4*, *GAL10*, OR *PHO5* genes, combined with the transcriptional activation region of a glycolytic enzyme gene such as GAP or PyK (EP-A-0 164 556). Furthermore, a yeast promoter can include naturally occurring promoters of non-yeast origin that have the ability to bind yeast RNA polymerase and initiate transcription. Examples of such promoters include, *inter alia*, [Cohen *et al.* (1980) *Proc. Natl. Acad. Sci. USA 77*:1078; Henikoff *et al.* (1981) *Nature 283*:835; Hollenberg *et al.* (1981) *Curr. Topics Microbiol. Immunol. 96*:119; Hollenberg *et al.* (1979) "The Expression of Bacterial Antibiotic Resistance Genes in the Yeast Saccharomyces cerevisiae," in: *Plasmids of Medical, Environmental and Commercial Importance* (eds. K.N. Timmis and A. Puhler); Mercerau-Puigalon *et al.* (1980) *Gene 11*:163; Panthier *et al.* (1980) *Curr. Genet.* 2:109;].

A DNA molecule may be expressed intracellularly in yeast. A promoter sequence may be directly linked with the DNA molecule, in which case the first amino acid at the N-terminus of the recombinant protein will always be a methionine, which is encoded by the ATG start codon. If desired, methionine at the N-terminus may be cleaved from the protein by *in vitro* incubation with cyanogen bromide.

Fusion proteins provide an alternative for yeast expression systems, as well as in mammalian, baculovirus, and bacterial expression systems. Usually, a DNA sequence encoding the N-terminal portion of an endogenous yeast protein, or other stable protein, is fused to the 5' end of heterologous coding sequences. Upon expression, this construct will provide a fusion of the two amino acid sequences. For example, the yeast or human superoxide dismutase (SOD) gene, can be linked at the 5' terminus of a foreign gene and expressed in yeast. The DNA sequence at the junction of the two amino acid sequences may or may not encode a cleavable site. See *eg.* EP-A-0 196 056. Another example is a ubiquitin fusion protein. Such a fusion protein is made with the ubiquitin region that preferably retains a site for a processing enzyme (*eg.* ubiquitin-specific processing protease) to cleave the ubiquitin from the foreign protein. Through this method, therefore, native foreign protein can be isolated (*eg.* WO88/024066).

Alternatively, foreign proteins can also be secreted from the cell into the growth media by creating chimeric DNA molecules that encode a fusion protein comprised of a leader sequence fragment that provide for secretion in yeast of the foreign protein. Preferably, there are processing sites encoded between the leader fragment and

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the foreign gene that can be cleaved either *in vivo* or *in vitro*. The leader sequence fragment usually encodes a signal peptide comprised of hydrophobic amino acids which direct the secretion of the protein from the cell.

DNA encoding suitable signal sequences can be derived from genes for secreted yeast proteins, such as the yeast invertase gene (EP-A-0 012 873; JPO. 62,096,086) and the A-factor gene (US patent 4,588,684). Alternatively, leaders of non-yeast origin, such as an interferon leader, exist that also provide for secretion in yeast (EP-A-0 060 057).

A preferred class of secretion leaders are those that employ a fragment of the yeast alpha-factor gene, which contains both a "pre" signal sequence, and a "pro" region. The types of alpha-factor fragments that can be employed include the full-length pre-pro alpha factor leader (about 83 amino acid residues) as well as truncated alpha-factor leaders (usually about 25 to about 50 amino acid residues) (US Patents 4,546,083 and 4,870,008; EP-A-0 324 274). Additional leaders employing an alpha-factor leader fragment that provides for secretion include hybrid alpha-factor leaders made with a presequence of a first yeast, but a pro-region from a second yeast alphafactor. (eg. see WO 89/02463.)

Usually, transcription termination sequences recognized by yeast are regulatory regions located 3' to the translation stop codon, and thus together with the promoter flank the coding sequence. These sequences direct the transcription of an mRNA which can be translated into the polypeptide encoded by the DNA. Examples of transcription terminator sequence and other yeast-recognized termination sequences, such as those coding for glycolytic enzymes.

Usually, the above described components, comprising a promoter, leader (if desired), coding sequence of interest, and transcription termination sequence, are put together into expression constructs. Expression constructs are often maintained in a replicon, such as an extrachromosomal element (eg. plasmids) capable of stable maintenance in a host, such as yeast or bacteria. The replicon may have two replication systems, thus allowing it to be maintained, for example, in yeast for expression and in a prokaryotic host for cloning and amplification. Examples of such yeast-bacteria shuttle vectors include YEp24 [Botstein et al. (1979) Gene 8:17-24], pCl/1 [Brake et al. (1984) Proc. Natl. Acad. Sci USA 81:4642-4646], and YRp17 [Stinchcomb et al. (1982) J. Mol. Biol. 158:157]. In addition, a replicon may be either a high or low copy number plasmid. A high copy number plasmid will generally have a copy number ranging from about 5 to about 200, and usually about 10 to about 150. A host containing a high copy number plasmid will preferably have at least about 10, and more preferably at least about 20. Enter a high or low copy number vector may be selected, depending upon the effect of the vector and the foreign protein on the host. See eg. Brake et al., supra.

Alternatively, the expression constructs can be integrated into the yeast genome with an integrating vector. Integrating vectors usually contain at least one sequence homologous to a yeast chromosome that allows the

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vector to integrate, and preferably contain two homologous sequences flanking the expression construct. Integrations appear to result from recombinations between homologous DNA in the vector and the yeast chromosome [Orr-Weaver et al. (1983) Methods in Enzymol. 101:228-245]. An integrating vector may be directed to a specific locus in yeast by selecting the appropriate homologous sequence for inclusion in the vector. See Orr-Weaver et al., supra. One or more expression construct may integrate, possibly affecting levels of recombinant protein produced [Rine et al. (1983) Proc. Natl. Acad. Sci. USA 80:6750]. The chromosomal sequences included in the vector can occur either as a single segment in the vector, which results in the integration of the entire vector, or two segments homologous to adjacent segments in the chromosome and flanking the expression construct in the vector, which can result in the stable integration of only the expression construct.

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Usually, extrachromosomal and integrating expression constructs may contain selectable markers to allow for the selection of yeast strains that have been transformed. Selectable markers may include biosynthetic genes that can be expressed in the yeast host, such as *ADE2*, *HIS4*, *LEU2*, *TRP1*, and *ALG7*, and the G418 resistance gene, which confer resistance in yeast cells to tunicamycin and G418, respectively. In addition, a suitable selectable marker may also provide yeast with the ability to grow in the presence of toxic compounds, such as metal. For example, the presence of *CUP1* allows yeast to grow in the presence of copper ions [Butt *et al.* (1987) *Microbiol, Rev. 51*:351].

Alternatively, some of the above described components can be put together into transformation vectors. Transformation vectors are usually comprised of a selectable marker that is either maintained in a replicon or developed into an integrating vector, as described above.

Expression and transformation vectors, either extrachromosomal replicons or integrating vectors, have been developed for transformation into many yeasts. For example, expression vectors have been developed for, *inter alia*, the following yeasts:Candida albicans [Kurtz, et al. (1986) Mol. Cell. Biol. 6:142], Candida maltosa [Kunze, et al. (1985) J. Basic Microbiol. 25:141]. Hansenula polymorpha [Gleeson, et al. (1986) J. Gen. Microbiol. 132:3459; Roggenkamp et al. (1986) Mol. Gen. Genet. 202:302], Kluyveromyces fragilis [Das, et al. (1984) J. Bacteriol. 158:1165], Kluyveromyces lactis [De Louvencourt et al. (1983) J. Bacteriol. 154:737; Van den Berg et al. (1990) Bio/Technology 8:135], Pichia guillerimondii [Kunze et al. (1985) J. Basic Microbiol. 25:141], Pichia pastoris [Cregg, et al. (1985) Mol. Cell. Biol. 5:3376; US Patent Nos. 4,837,148 and 4,929,555], Saccharomyces cerevisiae [Hinnen et al. (1978) Proc. Natl. Acad. Sci. USA 75:1929; Ito et al. (1983) J. Bacteriol. 153:163], Schizosaccharomyces pombe [Beach and Nurse (1981) Nature 300:706], and Yarrowia lipolytica [Davidow, et al. (1985) Curr. Genet. 10:380471 Gaillardin, et al. (1985) Curr. Genet. 10:49].

Methods of introducing exogenous DNA into yeast hosts are well-known in the art, and usually include either the transformation of spheroplasts or of intact yeast cells treated with alkali cations. Transformation procedures usually vary with the yeast species to be transformed. See *eg.* [Kurtz *et al.* (1986) *Mol. Cell. Biol. 6*:142; Kunze *et al.* (1985) *J. Basic Microbiol. 25*:141; Candida]; [Gleeson *et al.* (1986) *J. Gen. Microbiol. 132*:3459; Roggenkamp *et al.* (1986) *Mol. Gen. Genet. 202*:302; Hansenula]; [Das *et al.* (1984) *J. Bacteriol. 158*:1165; De Louvencourt *et al.* (1983) *J. Bacteriol. 154*:1165; Van den Berg *et al.* (1990) *Bio/Technology 8*:135; Kluyveromyces]; [Cregg *et al.* (1985) *Mol. Cell. Biol. 5*:3376; Kunze *et al.* (1985) *J. Basic Microbiol. 25*:141; US Patent Nos. 4,837,148 and 4,929,555; Pichia]; [Hinnen *et al.* (1978) *Proc. Natl. Acad. Sci. USA 75*;1929; Ito *et al.* (1983) *J. Bacteriol. 153*:163 Saccharomyces]; [Beach and Nurse (1981) *Nature 300*:706; Schizosaccharomyces]; [Davidow *et al.* (1985) *Curr. Genet. 10*:39; Gaillardin *et al.* (1985) *Curr. Genet. 10*:49; Yarrowia].

#### Antibodies

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As used herein, the term "antibody" refers to a polypeptide or group of polypeptides composed of at least one antibody combining site. An "antibody combining site" is the three-dimensional binding space with an internal surface shape and charge distribution complementary to the features of an epitope of an antigen, which allows a binding of the antibody with the antigen. "Antibody" includes, for example, vertebrate antibodies, hybrid antibodies, chimeric antibodies, humanised antibodies, altered antibodies, univalent antibodies, Fab proteins, and single domain antibodies.

Antibodies against the proteins of the invention are useful for affinity chromatography, immunoassays, and distinguishing/identifying Neisserial proteins.

Antibodies to the proteins of the invention, both polyclonal and monoclonal, may be prepared by conventional methods. In general, the protein is first used to immunize a suitable animal, preferably a mouse, rat, rabbit or goat. Rabbits and goats are preferred for the preparation of polyclonal sera due to the volume of serum obtainable, and the availability of labeled anti-rabbit and anti-goat antibodies. Immunization is generally performed by mixing or emulsifying the protein in saline, preferably in an adjuvant such as Freund's complete adjuvant, and injecting the mixture or emulsion parenterally (generally subcutaneously or intramuscularly). A dose of 50-200 µg/injection is typically sufficient. Immunization is generally boosted 2-6 weeks later with one or more injections of the protein in saline, preferably using Freund's incomplete adjuvant. One may alternatively generate antibodies by in vitro immunization using methods known in the art, which for the purposes of this invention is considered equivalent to *in vivo* immunization. Polyclonal antisera is obtained by bleeding the immunized animal into a glass or plastic container, incubating the blood at 25°C for one hour, followed by

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incubating at 4°C for 2-18 hours. The serum is recovered by centrifugation (eg. 1,000g for 10 minutes). About 20-50 ml per bleed may be obtained from rabbits.

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Monoclonal antibodies are prepared using the standard method of Kohler & Milstein [Nature (1975) 256:495-96], or a modification thereof. Typically, a mouse or rat is immunized as described above. However, rather than bleeding the animal to extract serum, the spleen (and optionally several large lymph nodes) is removed and dissociated into single cells. If desired, the spleen cells may be screened (after removal of nonspecifically adherent cells) by applying a cell suspension to a plate or well coated with the protein antigen. B-cells expressing membrane-bound immunoglobulin specific for the antigen bind to the plate, and are not rinsed away with the rest of the suspension. Resulting B-cells, or all dissociated spleen cells, are then induced to fuse with myeloma cells to form hybridomas, and are cultured in a selective medium (eg. hypoxanthine, aminopterin, thymidine medium, "HAT"). The resulting hybridomas are plated by limiting dilution, and are assayed for the production of antibodies which bind specifically to the immunizing antigen (and which do not bind to unrelated antigens). The selected MAb-secreting hybridomas are then cultured either in vitro (eg. in tissue culture bottles or hollow fiber reactors), or in vivo (as ascites in mice).

If desired, the antibodies (whether polyclonal or monoclonal) may be labeled using conventional techniques. Suitable labels include fluorophores, chromophores, radioactive atoms (particularly <sup>32</sup>P and <sup>125</sup>I), electron-dense reagents, enzymes, and ligands having specific binding partners. Enzymes are typically detected by their activity. For example, horseradish peroxidase is usually detected by its ability to convert 3,3',5,5'-tetramethylbenzidine (TMB) to a blue pigment, quantifiable with a spectrophotometer. "Specific binding partner" refers to a protein capable of binding a ligand molecule with high specificity, as for example in the case of an antigen and a monoclonal antibody specific therefor. Other specific binding partners include biotin and avidin or streptavidin, IgG and protein A, and the numerous receptor-ligand couples known in the art. It should be understood that the above description is not meant to categorize the various labels into distinct classes, as the same label may serve in several different modes. For example, <sup>125</sup>I may serve as a radioactive label or as an electron-dense reagent. HRP may serve as enzyme or as antigen for a MAb. Further, one may combine various labels for desired effect. For example, MAbs and avidin also require labels in the practice of this invention: thus, one might label a MAb with biotin, and detect its presence with avidin labeled with <sup>125</sup>I, or with an anti-biotin MAb labeled with HRP. Other permutations and possibilities will be readily apparent to those of ordinary skill in the art, and are considered as equivalents within the scope of the invention.

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## Pharmaceutical Compositions

Pharmaceutical compositions can comprise either polypeptides, antibodies, or nucleic acid of the invention. The pharmaceutical compositions will comprise a therapeutically effective amount of either polypeptides, antibodies, or polynucleotides of the claimed invention.

The term "therapeutically effective amount" as used herein refers to an amount of a therapeutic agent to treat, ameliorate, or prevent a desired disease or condition, or to exhibit a detectable therapeutic or preventative effect. The effect can be detected by, for example, chemical markers or antigen levels. Therapeutic effects also include reduction in physical symptoms, such as decreased body temperature. The precise effective amount for a subject will depend upon the subject's size and health, the nature and extent of the condition, and the therapeutics or combination of therapeutics selected for administration. Thus, it is not useful to specify an exact effective amount in advance. However, the effective amount for a given situation can be determined by routine experimentation and is within the judgement of the clinician.

For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the DNA constructs in the individual to which it is administered.

A pharmaceutical composition can also contain a pharmaceutically acceptable carrier. The term "pharmaceutically acceptable carrier" refers to a carrier for administration of a therapeutic agent, such as antibodies or a polypeptide, genes, and other therapeutic agents. The term refers to any pharmaceutical carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition, and which may be administered without undue toxicity. Suitable carriers may be large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, and inactive virus particles. Such carriers are well known to those of ordinary skill in the art.

Pharmaceutically acceptable salts can be used therein, for example, mineral acid salts such as hydrochlorides, hydrobromides, phosphates, sulfates, and the like; and the salts of organic acids such as acetates, propionates, malonates, benzoates, and the like. A thorough discussion of pharmaceutically acceptable excipients is available in Remington's Pharmaceutical Sciences (Mack Pub. Co., N.J. 1991).

Pharmaceutically acceptable carriers in therapeutic compositions may contain liquids such as water, saline, glycerol and ethanol. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles. Typically, the therapeutic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. Liposomes are included within the definition of a pharmaceutically acceptable carrier.

## Delivery Methods

Once formulated, the compositions of the invention can be administered directly to the subject. The subjects to be treated can be animals; in particular, human subjects can be treated.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly or delivered to the interstitial space of a tissue. The compositions can also be administered into a lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal or transcutaneous applications (eg. see WO98/20734), needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

#### Vaccines

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Vaccines according to the invention may either be prophylactic (*ie.* to prevent infection) or therapeutic (*ie.* to treat disease after infection).

Such vaccines comprise immunising antigen(s), immunogen(s), polypeptide(s), protein(s) or nucleic acid, usually in combination with "pharmaceutically acceptable carriers," which include any carrier that does not itself induce the production of antibodies harmful to the individual receiving the composition. Suitable carriers are typically large, slowly metabolized macromolecules such as proteins, polysaccharides, polylactic acids, polyglycolic acids, polymeric amino acids, amino acid copolymers, lipid aggregates (such as oil droplets or liposomes), and inactive virus particles. Such carriers are well known to those of ordinary skill in the art. Additionally, these carriers may function as immunostimulating agents ("adjuvants"). Furthermore, the antigen or immunogen may be conjugated to a bacterial toxoid, such as a toxoid from diphtheria, tetanus, cholera, *H. pylori*, *etc.* pathogens.

Preferred adjuvants to enhance effectiveness of the composition include, but are not limited to: (1) aluminum salts (alum), such as aluminum hydroxide, aluminum phosphate, aluminum sulfate, etc; (2) oil-in-water emulsion formulations (with or without other specific immunostimulating agents such as muramyl peptides (see below) or bacterial cell wall components), such as for example (a) MF59<sup>TM</sup> (WO 90/14837; Chapter 10 in *Vaccine design: the subunit and adjuvant approach*, eds. Powell & Newman, Plenum Press 1995), containing 5% Squalene, 0.5% Tween 80, and 0.5% Span 85 (optionally containing various amounts of MTP-PE (see below), although not required) formulated into submicron particles using a microfluidizer such as Model 110Y microfluidizer (Microfluidics, Newton, MA), (b) SAF, containing 10% Squalane, 0.4% Tween 80, 5% pluronic-blocked polymer L121, and thr-MDP (see below) either microfluidized into a submicron emulsion or vortexed to generate a larger particle size emulsion, and (c) Ribi<sup>TM</sup> adjuvant system (RAS), (Ribi Immunochem, Hamilton, MT) containing 2% Squalene, 0.2% Tween 80, and one or more bacterial cell wall components from the group consisting of monophosphorylipid A (MPL), trehalose dimycolate (TDM), and cell wall skeleton

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(CWS), preferably MPL + CWS (Detox<sup>TM</sup>); (3) saponin adjuvants, such as Stimulon<sup>TM</sup> (Cambridge Bioscience, Worcester, MA) may be used or particles generated therefrom such as ISCOMs (immunostimulating complexes); (4) Complete Freund's Adjuvant (CFA) and Incomplete Freund's Adjuvant (IFA); (5) cytokines, such as interleukins (*eg.* IL-1, IL-2, IL-4, IL-5, IL-6, IL-7, IL-12, *etc.*), interferons (*eg.* gamma interferon), macrophage colony stimulating factor (M-CSF), tumor necrosis factor (TNF), etc; and (6) other substances that act as immunostimulating agents to enhance the effectiveness of the composition. Alum and MF59<sup>TM</sup> are preferred.

As mentioned above, muramyl peptides include, but are not limited to, N-acetyl-muramyl-L-threonyl-D-isoglutamine (thr-MDP), N-acetyl-normuramyl-L-alanyl-D-isoglutamine (nor-MDP), N-acetylmuramyl-L-alanyl-D-isoglutaminyl-L-alanine-2-(1'-2'-dipalmitoyl-sn-glycero-3-hydroxyphosphoryloxy)-ethylamine (MTP-PE), etc.

The immunogenic compositions (*eg.* the immunising antigen/immunogen/polypeptide/protein/ nucleic acid, pharmaceutically acceptable carrier, and adjuvant) typically will contain diluents, such as water, saline, glycerol, ethanol, etc. Additionally, auxiliary substances, such as wetting or emulsifying agents, pH buffering substances, and the like, may be present in such vehicles.

Typically, the immunogenic compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid vehicles prior to injection may also be prepared. The preparation also may be emulsified or encapsulated in liposomes for enhanced adjuvant effect, as discussed above under pharmaceutically acceptable carriers.

Immunogenic compositions used as vaccines comprise an immunologically effective amount of the antigenic or immunogenic polypeptides, as well as any other of the above-mentioned components, as needed. By "immunologically effective amount", it is meant that the administration of that amount to an individual, either in a single dose or as part of a series, is effective for treatment or prevention. This amount varies depending upon the health and physical condition of the individual to be treated, the taxonomic group of individual to be treated (eg. nonhuman primate, primate, etc.), the capacity of the individual's immune system to synthesize antibodies, the degree of protection desired, the formulation of the vaccine, the treating doctor's assessment of the medical situation, and other relevant factors. It is expected that the amount will fall in a relatively broad range that can be determined through routine trials.

The immunogenic compositions are conventionally administered parenterally, eg. by injection, either subcutaneously, intramuscularly, or transdermally/transcutaneously (eg. WO98/20734). Additional formulations suitable for other modes of administration include oral and pulmonary formulations, suppositories, and transdermal applications. Dosage treatment may be a single dose schedule or a multiple dose schedule. The vaccine may be administered in conjunction with other immunoregulatory agents.

As an alternative to protein-based vaccines, DNA vaccination may be employed [eg. Robinson & Torres (1997) Seminars in Immunology 9:271-283; Donnelly et al. (1997) Annu Rev Immunol 15:617-648; see later herein].

## Gene Delivery Vehicles

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Gene therapy vehicles for delivery of constructs including a coding sequence of a therapeutic of the invention, to be delivered to the mammal for expression in the mammal, can be administered either locally or systemically. These constructs can utilize viral or non-viral vector approaches in *in vivo* or *ex vivo* modality. Expression of such coding sequence can be induced using endogenous mammalian or heterologous promoters. Expression of the coding sequence in vivo can be either constitutive or regulated.

The invention includes gene delivery vehicles capable of expressing the contemplated nucleic acid sequences.

The gene delivery vehicle is preferably a viral vector and, more preferably, a retroviral, adenoviral, adeno-associated viral (AAV), herpes viral, or alphavirus vector. The viral vector can also be an astrovirus, coronavirus, orthomyxovirus, papovavirus, paramyxovirus, parvovirus, picornavirus, poxvirus, or togavirus viral vector. See generally, Jolly (1994) Cancer Gene Therapy 1:51-64; Kimura (1994) Human Gene Therapy 5:845-852; Connelly (1995) Human Gene Therapy 6:185-193; and Kaplitt (1994) Nature Genetics 6:148-153.

- Retroviral vectors are well known in the art and we contemplate that any retroviral gene therapy vector is employable in the invention, including B, C and D type retroviruses, xenotropic retroviruses (for example, NZB-X1, NZB-X2 and NZB9-1 (see O'Neill (1985) *J. Virol.* 53:160) polytropic retroviruses *eg.* MCF and MCF-MLV (see Kelly (1983) *J. Virol.* 45:291), spumaviruses and lentiviruses. See RNA Tumor Viruses, Second Edition, Cold Spring Harbor Laboratory, 1985.
- Portions of the retroviral gene therapy vector may be derived from different retroviruses. For example, retrovector LTRs may be derived from a Murine Sarcoma Virus, a tRNA binding site from a Rous Sarcoma Virus, a packaging signal from a Murine Leukemia Virus, and an origin of second strand synthesis from an Avian Leukosis Virus.

These recombinant retroviral vectors may be used to generate transduction competent retroviral vector particles by introducing them into appropriate packaging cell lines (see US patent 5,591,624). Retrovirus vectors can be constructed for site-specific integration into host cell DNA by incorporation of a chimeric integrase enzyme into the retroviral particle (see WO96/37626). It is preferable that the recombinant viral vector is a replication defective recombinant virus.

Packaging cell lines suitable for use with the above-described retrovirus vectors are well known in the art, are readily prepared (see WO95/30763 and WO92/05266), and can be used to create producer cell lines (also termed vector cell lines or "VCLs") for the production of recombinant vector particles. Preferably, the

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packaging cell lines are made from human parent cells (eg. HT1080 cells) or mink parent cell lines, which eliminates inactivation in human serum.

Preferred retroviruses for the construction of retroviral gene therapy vectors include Avian Leukosis Virus, Bovine Leukemia, Virus, Murine Leukemia Virus, Mink-Cell Focus-Inducing Virus, Murine Sarcoma Virus, Reticuloendotheliosis Virus and Rous Sarcoma Virus. Particularly preferred Murine Leukemia Viruses include 4070A and 1504A (Hartley and Rowe (1976) *J Virol* 19:19-25), Abelson (ATCC No. VR-999), Friend (ATCC No. VR-245), Graffi, Gross (ATCC Nol VR-590), Kirsten, Harvey Sarcoma Virus and Rauscher (ATCC No. VR-998) and Moloney Murine Leukemia Virus (ATCC No. VR-190). Such retroviruses may be obtained from depositories or collections such as the American Type Culture Collection ("ATCC") in Rockville, Maryland or isolated from known sources using commonly available techniques.

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Exemplary known retroviral gene therapy vectors employable in this invention include those described in patent applications GB2200651, EP0415731, EP0345242, EP0334301, WO89/02468; WO89/05349, WO89/09271, WO90/02806, WO90/07936, WO94/03622, WO93/25698, WO93/25234, WO93/11230, WO93/10218, WO91/02805, WO91/02825, WO95/07994, US 5,219,740, US 4,405,712, US 4,861,719, US 4,980,289, US 4,777,127, US 5,591,624. See also Vile (1993) *Cancer Res* 53:3860-3864; Vile (1993) *Cancer Res* 53:962-967; Ram (1993) *Cancer Res* 53 (1993) 83-88; Takamiya (1992) *J Neurosci Res* 33:493-503; Baba (1993) *J Neurosurg* 79:729-735; Mann (1983) *Cell* 33:153; Cane (1984) *Proc Natl Acad Sci* 81:6349; and Miller (1990) *Human Gene Therapy* 1.

Human adenoviral gene therapy vectors are also known in the art and employable in this invention. See, for example, Berkner (1988) *Biotechniques* 6:616 and Rosenfeld (1991) *Science* 252:431, and WO93/07283, WO93/06223, and WO93/07282. Exemplary known adenoviral gene therapy vectors employable in this invention include those described in the above referenced documents and in WO94/12649, WO93/03769, WO93/19191, WO94/28938, WO95/11984, WO95/00655, WO95/27071, WO95/29993, WO95/34671, WO96/05320, WO94/08026, WO94/11506, WO93/06223, WO94/24299, WO95/14102, WO95/24297, WO95/02697, WO94/28152, WO94/24299, WO95/09241, WO95/25807, WO95/05835, WO94/18922 and WO95/09654. Alternatively, administration of DNA linked to killed adenovirus as described in Curiel (1992) *Hum. Gene Ther.* 3:147-154 may be employed. The gene delivery vehicles of the invention also include adenovirus associated virus (AAV) vectors. Leading and preferred examples of such vectors for use in this invention are the AAV-2 based vectors disclosed in Srivastava, WO93/09239. Most preferred AAV vectors comprise the two AAV inverted terminal repeats in which the native D-sequences are modified by substitution of nucleotides, such that at least 5 native nucleotides and up to 18 native nucleotides, preferably at least 10 native nucleotides up to 18 native nucleotides, most preferably 10 native nucleotides are retained and the

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D-sequences of the AAV inverted terminal repeats are sequences of 20 consecutive nucleotides. The native D-sequences of the AAV inverted terminal repeats are sequences of 20 consecutive nucleotides in each AAV inverted terminal repeat (*ie.* there is one sequence at each end) which are not involved in HP formation. The non-native replacement nucleotide may be any nucleotide other than the nucleotide found in the native D-sequence in the same position. Other employable exemplary AAV vectors are pWP-19, pWN-1, both of which are disclosed in Nahreini (1993) *Gene* 124:257-262. Another example of such an AAV vector is psub201 (see Samulski (1987) *J. Virol.* 61:3096). Another exemplary AAV vector is the Double-D ITR vector. Construction of the Double-D ITR vector is disclosed in US Patent 5,478,745. Still other vectors are those disclosed in Carter US Patent 4,797,368 and Muzyczka US Patent 5,139,941, Chartejee US Patent 5,474,935, and Kotin WO94/288157. Yet a further example of an AAV vector employable in this invention is SSV9AFABTKneo, which contains the AFP enhancer and albumin promoter and directs expression predominantly in the liver. Its structure and construction are disclosed in Su (1996) *Human Gene Therapy* 7:463-470. Additional AAV gene therapy vectors are described in US 5,354,678, US 5,173,414, US 5,139,941, and US 5,252,479.

The gene therapy vectors of the invention also include herpes vectors. Leading and preferred examples are herpes simplex virus vectors containing a sequence encoding a thymidine kinase polypeptide such as those disclosed in US 5,288,641 and EP0176170 (Roizman). Additional exemplary herpes simplex virus vectors include HFEM/ICP6-LacZ disclosed in WO95/04139 (Wistar Institute), pHSVlac described in Geller (1988) Science 241:1667-1669 and in WO90/09441 and WO92/07945, HSV Us3::pgC-lacZ described in Fink (1992)

Human Gene Therapy 3:11-19 and HSV 7134, 2 RH 105 and GAL4 described in EP 0453242 (Breakefield), and those deposited with the ATCC as accession numbers ATCC VR-977 and ATCC VR-260.

Also contemplated are alpha virus gene therapy vectors that can be employed in this invention. Preferred alpha virus vectors are Sindbis viruses vectors. Togaviruses, Semliki Forest virus (ATCC VR-67; ATCC VR-1247), Middleberg virus (ATCC VR-370), Ross River virus (ATCC VR-373; ATCC VR-1246), Venezuelan equine encephalitis virus (ATCC VR923; ATCC VR-1250; ATCC VR-1249; ATCC VR-532), and those described in US patents 5,091,309, 5,217,879, and WO92/10578. More particularly, those alpha virus vectors described in US Serial No. 08/405,627, filed March 15, 1995,WO94/21792, WO92/10578, WO95/07994, US 5,091,309 and US 5,217,879 are employable. Such alpha viruses may be obtained from depositories or collections such as the ATCC in Rockville, Maryland or isolated from known sources using commonly available techniques. Preferably, alphavirus vectors with reduced cytotoxicity are used (see USSN 08/679640).

DNA vector systems such as eukaryotic layered expression systems are also useful for expressing the nucleic acids of the invention. See WO95/07994 for a detailed description of eukaryotic layered expression systems.

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Preferably, the eukaryotic layered expression systems of the invention are derived from alphavirus vectors and most preferably from Sindbis viral vectors.

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Other viral vectors suitable for use in the present invention include those derived from poliovirus, for example ATCC VR-58 and those described in Evans, Nature 339 (1989) 385 and Sabin (1973) J. Biol. Standardization 1:115; rhinovirus, for example ATCC VR-1110 and those described in Arnold (1990) J Cell Biochem L401; pox viruses such as canary pox virus or vaccinia virus, for example ATCC VR-111 and ATCC VR-2010 and those described in Fisher-Hoch (1989) Proc Natl Acad Sci 86:317; Flexner (1989) Ann NY Acad Sci 569:86, Flexner (1990) Vaccine 8:17; in US 4,603,112 and US 4,769,330 and WO89/01973; SV40 virus, for example ATCC VR-305 and those described in Mulligan (1979) Nature 277:108 and Madzak (1992) J Gen Virol 73:1533; influenza virus, for example ATCC VR-797 and recombinant influenza viruses made employing reverse genetics techniques as described in US 5,166,057 and in Enami (1990) Proc Natl Acad Sci 87:3802-3805; Enami & Palese (1991) J Virol 65:2711-2713 and Luyties (1989) Cell 59:110, (see also McMichael (1983) NEJ Med 309:13, and Yap (1978) Nature 273:238 and Nature (1979) 277:108); human immunodeficiency virus as described in EP-0386882 and in Buchschacher (1992) J. Virol. 66:2731; measles virus, for example ATCC VR-67 and VR-1247 and those described in EP-0440219; Aura virus, for example ATCC VR-368; Bebaru virus, for example ATCC VR-600 and ATCC VR-1240; Cabassou virus, for example ATCC VR-922; Chikungunya virus, for example ATCC VR-64 and ATCC VR-1241; Fort Morgan Virus, for example ATCC VR-924; Getah virus, for example ATCC VR-369 and ATCC VR-1243; Kyzylagach virus, for example ATCC VR-927; Mayaro virus, for example ATCC VR-66; Mucambo virus, for example ATCC VR-580 and ATCC VR-1244; Ndumu virus, for example ATCC VR-371; Pixuna virus, for example ATCC VR-372 and ATCC VR-1245; Tonate virus, for example ATCC VR-925; Triniti virus, for example ATCC VR-469; Una virus, for example ATCC VR-374; Whataroa virus, for example ATCC VR-926; Y-62-33 virus, for example ATCC VR-375; O'Nyong virus, Eastern encephalitis virus, for example ATCC VR-65 and ATCC VR-1242; Western encephalitis virus, for example ATCC VR-70, ATCC VR-1251, ATCC VR-622 and ATCC VR-1252; and coronavirus, for example ATCC VR-740 and those described in Hamre (1966) Proc Soc Exp Biol Med 121:190.

Delivery of the compositions of this invention into cells is not limited to the above mentioned viral vectors. Other delivery methods and media may be employed such as, for example, nucleic acid expression vectors, polycationic condensed DNA linked or unlinked to killed adenovirus alone, for example see US Serial No. 08/366,787, filed December 30, 1994 and Curiel (1992) *Hum Gene Ther* 3:147-154 ligand linked DNA, for example see Wu (1989) *J Biol Chem* 264:16985-16987, eucaryotic cell delivery vehicles cells, for example see US Serial No.08/240,030, filed May 9, 1994, and US Serial No. 08/404,796, deposition of photopolymerized hydrogel materials, hand-held gene transfer particle gun, as described in US Patent 5,149,655, ionizing radiation as described in US5,206,152 and in WO92/11033, nucleic charge neutralization or fusion with cell membranes.

Additional approaches are described in Philip (1994) *Mol Cell Biol* 14:2411-2418 and in Woffendin (1994) *Proc Natl Acad Sci* 91:1581-1585.

Particle mediated gene transfer may be employed, for example see US Serial No. 60/023,867. Briefly, the sequence can be inserted into conventional vectors that contain conventional control sequences for high level expression, and then incubated with synthetic gene transfer molecules such as polymeric DNA-binding cations like polylysine, protamine, and albumin, linked to cell targeting ligands such as asialoorosomucoid, as described in Wu & Wu (1987) *J. Biol. Chem.* 262:4429-4432, insulin as described in Hucked (1990) *Biochem Pharmacol* 40:253-263, galactose as described in Plank (1992) *Bioconjugate Chem* 3:533-539, lactose or transferrin.

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Naked DNA may also be employed. Exemplary naked DNA introduction methods are described in WO 90/11092 and US 5,580,859. Uptake efficiency may be improved using biodegradable latex beads. DNA coated latex beads are efficiently transported into cells after endocytosis initiation by the beads. The method may be improved further by treatment of the beads to increase hydrophobicity and thereby facilitate disruption of the endosome and release of the DNA into the cytoplasm.

Liposomes that can act as gene delivery vehicles are described in US 5,422,120, WO95/13796, WO94/23697, WO91/14445 and EP-524,968. As described in USSN. 60/023,867, on non-viral delivery, the nucleic acid sequences encoding a polypeptide can be inserted into conventional vectors that contain conventional control sequences for high level expression, and then be incubated with synthetic gene transfer molecules such as polymeric DNA-binding cations like polylysine, protamine, and albumin, linked to cell targeting ligands such as asialoorosomucoid, insulin, galactose, lactose, or transferrin. Other delivery systems include the use of liposomes to encapsulate DNA comprising the gene under the control of a variety of tissue-specific or ubiquitously-active promoters. Further non-viral delivery suitable for use includes mechanical delivery systems such as the approach described in Woffendin *et al* (1994) *Proc. Natl. Acad. Sci. USA* 91(24):11581-11585. Moreover, the coding sequence and the product of expression of such can be delivered through deposition of photopolymerized hydrogel materials. Other conventional methods for gene delivery that can be used for delivery of the coding sequence include, for example, use of hand-held gene transfer particle gun, as described in US 5,149,655; use of ionizing radiation for activating transferred gene, as described in US 5,206,152 and WO92/11033

Exemplary liposome and polycationic gene delivery vehicles are those described in US 5,422,120 and 4,762,915; in WO 95/13796; WO94/23697; and WO91/14445; in EP-0524968; and in Stryer, Biochemistry, pages 236-240 (1975) W.H. Freeman, San Francisco; Szoka (1980) *Biochem Biophys Acta* 600:1; Bayer (1979) *Biochem Biophys Acta* 550:464; Rivnay (1987) *Meth Enzymol* 149:119; Wang (1987) *Proc Natl Acad Sci* 84:7851; Plant (1989) *Anal Biochem* 176:420.

A polynucleotide composition can comprises therapeutically effective amount of a gene therapy vehicle, as the term is defined above. For purposes of the present invention, an effective dose will be from about 0.01 mg/kg to 50 mg/kg or 0.05 mg/kg to about 10 mg/kg of the DNA constructs in the individual to which it is administered.

## 5 <u>Delivery Methods</u>

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Once formulated, the polynucleotide compositions of the invention can be administered (1) directly to the subject; (2) delivered *ex vivo*, to cells derived from the subject; or (3) *in vitro* for expression of recombinant proteins. The subjects to be treated can be mammals or birds. Also, human subjects can be treated.

Direct delivery of the compositions will generally be accomplished by injection, either subcutaneously, intraperitoneally, intravenously or intramuscularly or delivered to the interstitial space of a tissue. The compositions can also be administered into a lesion. Other modes of administration include oral and pulmonary administration, suppositories, and transdermal or transcutaneous applications (*eg.* see WO98/20734), needles, and gene guns or hyposprays. Dosage treatment may be a single dose schedule or a multiple dose schedule.

Methods for the *ex vivo* delivery and reimplantation of transformed cells into a subject are known in the art and described in *eg*. WO93/14778. Examples of cells useful in ex vivo applications include, for example, stem cells, particularly hematopoetic, lymph cells, macrophages, dendritic cells, or tumor cells.

Generally, delivery of nucleic acids for both *ex vivo* and *in vitro* applications can be accomplished by the following procedures, for example, dextran-mediated transfection, calcium phosphate precipitation, polybrene mediated transfection, protoplast fusion, electroporation, encapsulation of the polynucleotide(s) in liposomes, and direct microinjection of the DNA into nuclei, all well known in the art.

## Polynucleotide and polypeptide pharmaceutical compositions

In addition to the pharmaceutically acceptable carriers and salts described above, the following additional agents can be used with polynucleotide and/or polypeptide compositions.

## A.Polypeptides

One example are polypeptides which include, without limitation: asioloorosomucoid (ASOR); transferrin; asialoglycoproteins; antibodies; antibody fragments; ferritin; interleukins; interferons, granulocyte, macrophage colony stimulating factor (GM-CSF), granulocyte colony stimulating factor (G-CSF), macrophage colony stimulating factor (M-CSF), stem cell factor and erythropoietin. Viral antigens, such as envelope proteins, can also be used. Also, proteins from other invasive organisms, such as the 17 amino acid peptide from the circumsporozoite protein of plasmodium falciparum known as RII.

## B.Hormones, Vitamins, etc.

Other groups that can be included are, for example: hormones, steroids, androgens, estrogens, thyroid hormone, or vitamins, folic acid.

#### C.Polyalkylenes, Polysaccharides, etc.

Also, polyalkylene glycol can be included with the desired polynucleotides/polypeptides. In a preferred embodiment, the polyalkylene glycol is polyethlylene glycol. In addition, mono-, di-, or polysaccharides can be included. In a preferred embodiment of this aspect, the polysaccharide is dextran or DEAE-dextran. Also, chitosan and poly(lactide-co-glycolide)

## D.Lipids, and Liposomes

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The desired polynucleotide/polypeptide can also be encapsulated in lipids or packaged in liposomes prior to delivery to the subject or to cells derived therefrom.

Lipid encapsulation is generally accomplished using liposomes which are able to stably bind or entrap and retain nucleic acid. The ratio of condensed polynucleotide to lipid preparation can vary but will generally be around 1:1 (mg DNA:micromoles lipid), or more of lipid. For a review of the use of liposomes as carriers for delivery of nucleic acids, see, Hug and Sleight (1991) *Biochim. Biophys. Acta.* 1097:1-17; Straubinger (1983) *Meth. Enzymol.* 101:512-527.

Liposomal preparations for use in the present invention include cationic (positively charged), anionic (negatively charged) and neutral preparations. Cationic liposomes have been shown to mediate intracellular delivery of plasmid DNA (Felgner (1987) *Proc. Natl. Acad. Sci. USA* 84:7413-7416); mRNA (Malone (1989) *Proc. Natl. Acad. Sci. USA* 86:6077-6081); and purified transcription factors (Debs (1990) *J. Biol. Chem.* 265:10189-10192), in functional form.

Cationic liposomes are readily available. For example, N[1-2,3-dioleyloxy)propyl]-N,N,N-triethylammonium (DOTMA) liposomes are available under the trademark Lipofectin, from GIBCO BRL, Grand Island, NY. (See, also, Felgner *supra*). Other commercially available liposomes include transfectace (DDAB/DOPE) and DOTAP/DOPE (Boerhinger). Other cationic liposomes can be prepared from readily available materials using techniques well known in the art. See, *eg.* Szoka (1978) *Proc. Natl. Acad. Sci. USA* 75:4194-4198; WO90/11092 for a description of the synthesis of DOTAP (1,2-bis(oleoyloxy)-3-(trimethylammonio)propane) liposomes.

Similarly, anionic and neutral liposomes are readily available, such as from Avanti Polar Lipids (Birmingham, AL), or can be easily prepared using readily available materials. Such materials include phosphatidyl choline, cholesterol, phosphatidyl ethanolamine, dioleoylphosphatidyl choline (DOPC), dioleoylphosphatidyl glycerol (DOPG), dioleoylphoshatidyl ethanolamine (DOPE), among others. These materials can also be mixed with the

DOTMA and DOTAP starting materials in appropriate ratios. Methods for making liposomes using these materials are well known in the art.

The liposomes can comprise multilammelar vesicles (MLVs), small unilamellar vesicles (SUVs), or large unilamellar vesicles (LUVs). The various liposome-nucleic acid complexes are prepared using methods known in the art. See eg. Straubinger (1983) Meth. Immunol. 101:512-527; Szoka (1978) Proc. Natl. Acad. Sci. USA 75:4194-4198; Papahadjopoulos (1975) Biochim. Biophys. Acta 394:483; Wilson (1979) Cell 17:77); Deamer & Bangham (1976) Biochim. Biophys. Acta 443:629; Ostro (1977) Biochem. Biophys. Res. Commun. 76:836; Fraley (1979) Proc. Natl. Acad. Sci. USA 76:3348); Enoch & Strittmatter (1979) Proc. Natl. Acad. Sci. USA 76:145; Fraley (1980) J. Biol. Chem. (1980) 255:10431; Szoka & Papahadjopoulos (1978) Proc. Natl. Acad. Sci. USA 75:145; and Schaefer-Ridder (1982) Science 215:166.

## **E.Lipoproteins**

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In addition, lipoproteins can be included with the polynucleotide/polypeptide to be delivered. Examples of lipoproteins to be utilized include: chylomicrons, HDL, IDL, LDL, and VLDL. Mutants, fragments, or fusions of these proteins can also be used. Also, modifications of naturally occurring lipoproteins can be used, such as acetylated LDL. These lipoproteins can target the delivery of polynucleotides to cells expressing lipoprotein receptors. Preferably, if lipoproteins are including with the polynucleotide to be delivered, no other targeting ligand is included in the composition.

Naturally occurring lipoproteins comprise a lipid and a protein portion. The protein portion are known as apoproteins. At the present, apoproteins A, B, C, D, and E have been isolated and identified. At least two of these contain several proteins, designated by Roman numerals, AI, AII, AIV; CI, CII, CIII.

A lipoprotein can comprise more than one apoprotein. For example, naturally occurring chylomicrons comprises of A, B, C, and E, over time these lipoproteins lose A and acquire C and E apoproteins. VLDL comprises A, B, C, and E apoproteins, LDL comprises apoprotein B; and HDL comprises apoproteins A, C, and E.

The amino acid of these apoproteins are known and are described in, for example, Breslow (1985) Annu Rev. Biochem 54:699; Law (1986) Adv. Exp Med. Biol. 151:162; Chen (1986) J Biol Chem 261:12918; Kane (1980) Proc Natl Acad Sci USA 77:2465; and Utermann (1984) Hum Genet 65:232.

Lipoproteins contain a variety of lipids including, triglycerides, cholesterol (free and esters), and phospholipids. The composition of the lipids varies in naturally occurring lipoproteins. For example, chylomicrons comprise mainly triglycerides. A more detailed description of the lipid content of naturally occurring lipoproteins can be found, for example, in *Meth. Enzymol.* 128 (1986). The composition of the lipids are chosen to aid in conformation of the apoprotein for receptor binding activity. The composition of lipids can also be chosen to facilitate hydrophobic interaction and association with the polynucleotide binding molecule.

Naturally occurring lipoproteins can be isolated from serum by ultracentrifugation, for instance. Such methods are described in *Meth. Enzymol.* (*supra*); Pitas (1980) *J. Biochem.* 255:5454-5460 and Mahey (1979) *J Clin. Invest* 64:743-750. Lipoproteins can also be produced by *in vitro* or recombinant methods by expression of the apoprotein genes in a desired host cell. See, for example, Atkinson (1986) *Annu Rev Biophys Chem* 15:403 and Radding (1958) *Biochim Biophys Acta* 30: 443. Lipoproteins can also be purchased from commercial suppliers, such as Biomedical Techniologies, Inc., Stoughton, Massachusetts, USA. Further description of lipoproteins can be found in Zuckermann *et al.* WO98/06437.

## F.Polycationic Agents

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Polycationic agents can be included, with or without lipoprotein, in a composition with the desired polynucleotide/polypeptide to be delivered.

Polycationic agents, typically, exhibit a net positive charge at physiological relevant pH and are capable of neutralizing the electrical charge of nucleic acids to facilitate delivery to a desired location. These agents have both in vitro, ex vivo, and in vivo applications. Polycationic agents can be used to deliver nucleic acids to a living subject either intramuscularly, subcutaneously, etc.

The following are examples of useful polypeptides as polycationic agents: polylysine, polyarginine, polyornithine, and protamine. Other examples include histones, protamines, human serum albumin, DNA binding proteins, non-histone chromosomal proteins, coat proteins from DNA viruses, such as (X174, transcriptional factors also contain domains that bind DNA and therefore may be useful as nucleic aid condensing agents. Briefly, transcriptional factors such as C/CEBP, c-jun, c-fos, AP-1, AP-2, AP-3, CPF, Prot-1, Sp-1, Oct-1, Oct-2, CREP, and TFIID contain basic domains that bind DNA sequences.

Organic polycationic agents include: spermine, spermidine, and purtrescine.

The dimensions and of the physical properties of a polycationic agent can be extrapolated from the list above, to construct other polypeptide polycationic agents or to produce synthetic polycationic agents.

Synthetic polycationic agents which are useful include, for example, DEAE-dextran, polybrene. Lipofectin<sup>TM</sup>, and lipofectAMINE<sup>TM</sup> are monomers that form polycationic complexes when combined with polynucleotides/polypeptides.

#### Immunodiagnostic Assays

Neisserial antigens of the invention can be used in immunoassays to detect antibody levels (or, conversely, anti-Neisserial antibodies can be used to detect antigen levels). Immunoassays based on well defined, recombinant antigens can be developed to replace invasive diagnostics methods. Antibodies to Neisserial proteins within biological samples, including for example, blood or serum samples, can be detected. Design of the immunoassays is subject to a great deal of variation, and a variety of these are known in the art. Protocols for the immunoassay may be based, for example, upon competition, or direct reaction, or sandwich type assays. Protocols may also, for example, use solid supports, or may be by immunoprecipitation. Most assays involve the use of labeled antibody or polypeptide; the labels may be, for example, fluorescent, chemiluminescent, radioactive, or dye molecules. Assays which amplify the signals from the probe are also known; examples of which are assays which utilize biotin and avidin, and enzyme-labeled and mediated immunoassays, such as ELISA assays.

Kits suitable for immunodiagnosis and containing the appropriate labeled reagents are constructed by packaging the appropriate materials, including the compositions of the invention, in suitable containers, along with the remaining reagents and materials (for example, suitable buffers, salt solutions, *etc.*) required for the conduct of the assay, as well as suitable set of assay instructions.

## Nucleic Acid Hybridisation

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"Hybridization" refers to the association of two nucleic acid sequences to one another by hydrogen bonding. Typically, one sequence will be fixed to a solid support and the other will be free in solution. Then, the two sequences will be placed in contact with one another under conditions that favor hydrogen bonding. Factors that affect this bonding include: the type and volume of solvent; reaction temperature; time of hybridization; agitation; agents to block the non-specific attachment of the liquid phase sequence to the solid support (Denhardt's reagent or BLOTTO); concentration of the sequences; use of compounds to increase the rate of association of sequences (dextran sulfate or polyethylene glycol); and the stringency of the washing conditions following hybridization. See Sambrook *et al.* [*supra*] Volume 2, chapter 9, pages 9.47 to 9.57.

"Stringency" refers to conditions in a hybridization reaction that favor association of very similar sequences over sequences that differ. For example, the combination of temperature and salt concentration should be chosen that is approximately 120 to 200°C below the calculated Tm of the hybrid under study. The temperature and salt conditions can often be determined empirically in preliminary experiments in which samples of genomic DNA immobilized on filters are hybridized to the sequence of interest and then washed under conditions of different stringencies. See Sambrook *et al.* at page 9.50.

Variables to consider when performing, for example, a Southern blot are (1) the complexity of the DNA being blotted and (2) the homology between the probe and the sequences being detected. The total amount of the fragment(s) to be studied can vary a magnitude of 10, from 0.1 to 1µg for a plasmid or phage digest to 10<sup>-9</sup> to 10<sup>-8</sup> g for a single copy gene in a highly complex eukaryotic genome. For lower complexity polynucleotides, substantially shorter blotting, hybridization, and exposure times, a smaller amount of starting polynucleotides, and lower specific activity of probes can be used. For example, a single-copy yeast gene can be detected with

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an exposure time of only 1 hour starting with 1  $\mu$ g of yeast DNA, blotting for two hours, and hybridizing for 4-8 hours with a probe of  $10^8$  cpm/ $\mu$ g. For a single-copy mammalian gene a conservative approach would start with 10  $\mu$ g of DNA, blot overnight, and hybridize overnight in the presence of 10% dextran sulfate using a probe of greater than  $10^8$  cpm/ $\mu$ g, resulting in an exposure time of ~24 hours.

Several factors can affect the melting temperature (Tm) of a DNA-DNA hybrid between the probe and the fragment of interest, and consequently, the appropriate conditions for hybridization and washing. In many cases the probe is not 100% homologous to the fragment. Other commonly encountered variables include the length and total G+C content of the hybridizing sequences and the ionic strength and formamide content of the hybridization buffer. The effects of all of these factors can be approximated by a single equation:

Tm= 
$$81 + 16.6(\log_{10}Ci) + 0.4[\%(G + C)] - 0.6(\%formamide) - 600/n - 1.5(\%mismatch)$$
.

where Ci is the salt concentration (monovalent ions) and *n* is the length of the hybrid in base pairs (slightly modified from Meinkoth & Wahl (1984) *Anal. Biochem.* 138: 267-284).

In designing a hybridization experiment, some factors affecting nucleic acid hybridization can be conveniently altered. The temperature of the hybridization and washes and the salt concentration during the washes are the simplest to adjust. As the temperature of the hybridization increases (*ie.* stringency), it becomes less likely for hybridization to occur between strands that are nonhomologous, and as a result, background decreases. If the radiolabeled probe is not completely homologous with the immobilized fragment (as is frequently the case in gene family and interspecies hybridization experiments), the hybridization temperature must be reduced, and background will increase. The temperature of the washes affects the intensity of the hybridizing band and the degree of background in a similar manner. The stringency of the washes is also increased with decreasing salt concentrations.

In general, convenient hybridization temperatures in the presence of 50% formamide are 42°C for a probe with is 95% to 100% homologous to the target fragment, 37°C for 90% to 95% homology, and 32°C for 85% to 90% homology. For lower homologies, formamide content should be lowered and temperature adjusted accordingly, using the equation above. If the homology between the probe and the target fragment are not known, the simplest approach is to start with both hybridization and wash conditions which are nonstringent. If non-specific bands or high background are observed after autoradiography, the filter can be washed at high stringency and reexposed. If the time required for exposure makes this approach impractical, several hybridization and/or washing stringencies should be tested in parallel.

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## Nucleic Acid Probe Assays

Methods such as PCR, branched DNA probe assays, or blotting techniques utilizing nucleic acid probes according to the invention can determine the presence of cDNA or mRNA. A probe is said to "hybridize" with a sequence of the invention if it can form a duplex or double stranded complex, which is stable enough to be detected.

The nucleic acid probes will hybridize to the Neisserial nucleotide sequences of the invention (including both sense and antisense strands). Though many different nucleotide sequences will encode the amino acid sequence, the native Neisserial sequence is preferred because it is the actual sequence present in cells. mRNA represents a coding sequence and so a probe should be complementary to the coding sequence; single-stranded cDNA is complementary to mRNA, and so a cDNA probe should be complementary to the non-coding sequence.

The probe sequence need not be identical to the Neisserial sequence (or its complement) — some variation in the sequence and length can lead to increased assay sensitivity if the nucleic acid probe can form a duplex with target nucleotides, which can be detected. Also, the nucleic acid probe can include additional nucleotides to stabilize the formed duplex. Additional Neisserial sequence may also be helpful as a label to detect the formed duplex. For example, a non-complementary nucleotide sequence may be attached to the 5' end of the probe, with the remainder of the probe sequence being complementary to a Neisserial sequence. Alternatively, non-complementary bases or longer sequences can be interspersed into the probe, provided that the probe sequence has sufficient complementarity with the a Neisserial sequence in order to hybridize therewith and thereby form a duplex which can be detected.

- The exact length and sequence of the probe will depend on the hybridization conditions, such as temperature, salt condition and the like. For example, for diagnostic applications, depending on the complexity of the analyte sequence, the nucleic acid probe typically contains at least 10-20 nucleotides, preferably 15-25, and more preferably at least 30 nucleotides, although it may be shorter than this. Short primers generally require cooler temperatures to form sufficiently stable hybrid complexes with the template.
- Probes may be produced by synthetic procedures, such as the triester method of Matteucci *et al.* [*J. Am. Chem. Soc.* (1981) 103:3185], or according to Urdea *et al.* [*Proc. Natl. Acad. Sci. USA* (1983) 80: 7461], or using commercially available automated oligonucleotide synthesizers.

The chemical nature of the probe can be selected according to preference. For certain applications, DNA or RNA are appropriate. For other applications, modifications may be incorporated *eg.* backbone modifications, such as phosphorothioates or methylphosphonates, can be used to increase *in vivo* half-life, alter RNA affinity, increase nuclease resistance *etc.* [*eg.* see Agrawal & Iyer (1995) *Curr Opin Biotechnol* 6:12-19; Agrawal (1996)

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TIBTECH 14:376-387]; analogues such as peptide nucleic acids may also be used [eg. see Corey (1997) TIBTECH 15:224-229; Buchardt et al. (1993) TIBTECH 11:384-386].

Alternatively, the polymerase chain reaction (PCR) is another well-known means for detecting small amounts of target nucleic acids. The assay is described in: Mullis *et al.* [*Meth. Enzymol.* (1987) 155: 335-350]; US patents 4,683,195 and 4,683,202. Two "primer" nucleotides hybridize with the target nucleic acids and are used to prime the reaction. The primers can comprise sequence that does not hybridize to the sequence of the amplification target (or its complement) to aid with duplex stability or, for example, to incorporate a convenient restriction site. Typically, such sequence will flank the desired Neisserial sequence.

A thermostable polymerase creates copies of target nucleic acids from the primers using the original target nucleic acids as a template. After a threshold amount of target nucleic acids are generated by the polymerase, they can be detected by more traditional methods, such as Southern blots. When using the Southern blot method, the labelled probe will hybridize to the Neisserial sequence (or its complement).

Also, mRNA or cDNA can be detected by traditional blotting techniques described in Sambrook *et al* [*supra*]. mRNA, or cDNA generated from mRNA using a polymerase enzyme, can be purified and separated using gel electrophoresis. The nucleic acids on the gel are then blotted onto a solid support, such as nitrocellulose. The solid support is exposed to a labelled probe and then washed to remove any unhybridized probe. Next, the duplexes containing the labeled probe are detected. Typically, the probe is labelled with a radioactive moiety.

## **EXAMPLES OF PREFERRED FRAGMENTS**

The protein sequences disclosed in WO99/24578 have been subjected to computer analysis to predict antigenic peptide fragments within the full-length proteins. Three algorithms have been used in this analysis:

- AMPHI This program has been used to predict T-cell epitopes [Gao et al. (1989) J. Immunol.
   143:3007; Roberts et al. (1996) AIDS Res Hum Retrovir 12:593; Quakyi et al. (1992) Scand J
   Immunol suppl.11:9] and is available in the Protean package of DNASTAR, Inc. (1228 South
   Park Street, Madison, Wisconsin 53715 USA).
- ANTIGENIC INDEX as disclosed by Jameson & Wolf (1988) The antigenic index: a novel algorithm for predicting antigenic determinants. CABIOS, 4:181:186
- HYDROPHILICITY as disclosed by Hopp & Woods (1981) Prediction of protein antigenic determinants from amino acid sequences. PNAS, 78:3824-3828
- Table I indicates preferred fragments of the proteins disclosed in WO99/24578. The three algorithms often identify the same fragments (eg. ORF100 the fragment from residue 98 to residue 109, and

the fragments from residue 111 to residue 121). Such multiply-identified fragments are particularly preferred. The algorithms often identify overlapping fragments (eg. ORF100 – AMPHI identifies residues 143-152, and Antigenic Index identified residues 148-157). The invention explicitly includes fragments resulting from a combination of these overlapping fragments (eg. the fragment from residue 143 to residue 157, in the case of ORF100). Fragments separated by a single amino acid are also often identified (eg. ORF48-1 hydrophilicity 334-342 and 344-349). The invention also includes fragments spanning the two extremes of such "adjacent" fragments (eg. 334-349 for ORF48-1).

TABLE I – 14151 fragments of the proteins disclosed in WO99/24578.

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10 Key: fragment#1 of the present application is amino acids 9-18 of ORF1-1 disclosed in WO99/24578, fragment#2 of the present application is amino acids 39-41 of ORF1-1 disclosed in WO99/24578 etc.

Fragment#	WO99/24578 ORF	Algorithm	Amino acids
1.	1-1	AMPHI	9-18
2.	1-1	АМРНІ	39-41
3.	1-1	АМРНІ	53-57
4.	1-1	АМРНІ	71-73
5.	1-1	АМРНІ	83-87
6.	1-1	AMPHI	102-104
7.	1-1	АМРНІ	110-112
8.	1-1	АМРНІ	118-120
9.	1-1	AMPHI	130-132
10.	1-1	АМРНІ	162-168
11.	1-1	АМРНІ	174-179
12.	1-1	АМРНІ	191-193
13.	1-1	АМРНІ	300-302
14.	1-1	AMPHI	351-354
15.	1-1	АМРНІ	360-363
16.	1-1	АМРНІ	368-372
17.	1-1	АМРНІ	381-384
18.	1-1	АМРНІ	391-393
19.	1-1	AMPHI	458-464
20.	1-1	АМРНІ	494-497
21.	1-1	АМРНІ	501-503
22.	1-1	AMPHI	545-549
23.	1-1	АМРНІ	650-657
24.	1-1	AMPHI	678-680
25.	1-1	АМРНІ	696-700

26	1,1	AMDIII	700 711
26.	1-1	AMPHI	709-711
27	1-1	AMPHI	732-741
28.	1-1	AMPHI	748-752
29.	1-1	AMPHI	771-775
30	1-1	AMPHI	794-796
31.	1-1	AMPHI	809-811
32.	1-1	AMPHI	874-878
33.	1-1	AMPHI	926-932
34.	1-1	AMPHI	934-939
35.	1-1	AMPHI	972-977
36.	1-1	AMPHI	1001-1004
37.	1-1	AMPHI	1007-1014
38.	1-1	AMPHI	1055-1059
39.	1-1	АМРНІ	1064-1069
40.	1-1	AMPHI	1074-1076
41.	1-1	АМРНІ	1084-1087
42.	1-1	AMPHI	1093-1108
43.	1-1	AMPHI	1153-1156
44.	1-1	АМРНІ	1174-1178
45.	1-1	AMPHI	1182-1186
46.	1-1	АМРНІ	1188-1192
47.	1-1	AMPHI	1197-1202
48.	1-1	AMPHI	1214-1224
49.	1-1	АМРНІ	1228-1232
50.	1-1	АМРНІ	1243-1246
51.	1-1	AMPHI	1261-1271
52.	1-1	АМРНІ	1302-1305
53.	1-1	AMPHI	1391-1394
54.	1-1	AMPHI	1410-1415
55.	1-1	Antigenic Index	1-23
56.	1-1	Antigenic Index	55-64
57.	1-1	Antigenic Index	66-87
58.	1-1	Antigenic Index	95-101
59.	1-1	Antigenic Index	115-120
60.	1-1	Antigenic Index	124-161
61.	1-1	Antigenic Index	168-175
62.	1-1	Antigenic Index	178-218
63.	1-1	Antigenic Index	229-231
64.	1-1	Antigenic Index	233-241
65.	1-1	Antigenic Index	246-256
66.	1-1	Antigenic Index	260-270
67.	1-1	Antigenic Index	276-279
68.	1-1	Antigenic Index	293-299

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70.	1-1	Antigenic Index	316-319
71.	1-1	Antigenic Index	322-359
72.	1-1	Antigenic Index	367-375
73.	1-1	Antigenic Index	383-394
74.	1-1	Antigenic Index	396-405
75.	1-1	Antigenic Index	410-415
76	1-1	Antigenic Index	425-435
77.	1-1	Antigenic Index	441-448
78.	1-1	Antigenic Index	455-467
79.	1-1	Antigenic Index	471-486
80.	1-1	Antigenic Index	490-501
81.	1-1	Antigenic Index	508-512
82.	1-1	Antigenic Index	516-525
83.	1-1	Antigenic Index	530-541
84.	1-1	Antigenic Index	546-554
85.	1-1	Antigenic Index	559-566
86.	1-1	Antigenic Index	570-591
87.	1-1	Antigenic Index	593-608
88.	1-1	Antigenic Index	615-621
89.	1-1	Antigenic Index	625-629
90.	1-1	Antigenic Index	632-640
91.	1-1	Antigenic Index	642-650
92.	1-1	Antigenic Index	653-667
93.	1-1	Antigenic Index	671-690
94.	1-1	Antigenic Index	693-710
95.	1-1	Antigenic Index	719-722
96.	1-1	Antigenic Index	727-748
97.	1-1	Antigenic Index	752-764
98.	1-1	Antigenic Index	779-790
99.	1-1	Antigenic Index	793-799
100.	1-1	Antigenic Index	815-827
101.	1-1	Antigenic Index	829-835
102.	1-1	Antigenic Index	843-849
103.	1-1	Antigenic Index	854-856
104.	1-1	Antigenic Index	860-862
105.	1-1	Antigenic Index	869-904
106.	1-1	Antigenic Index	914-944
107.	1-1	Antigenic Index	948-957
108.	1-1	Antigenic Index	961-970
109.	1-1	Antigenic Index	980-994
110.	1-1	Antigenic Index	1000-1008
111.	1-1	Antigenic Index	1013-1027
112.	1-1	Antigenic Index	1034-1037
113.	1-1	Antigenic Index	1045-1054

114.	1-1	Antigenic Index	1056-1083
115.	1-1	Antigenic Index	1090-1113
116.	1-1	Antigenic Index	1117-1160
117.	1-1	Antigenic Index	1162-1175
118.	1-1	Antigenic Index	1177-1184
119.	1-1	Antigenic Index	1197-1211
120.	1-1	Antigenic Index	1215-1238
121.	1-1	Antigenic Index	1240-1250
122.	1-1	Antigenic Index	1256-1273
123.	1-1	Antigenic Index	1286-1288
124.	1-1	Antigenic Index	1293-1295
125.	1-1	Antigenic Index	1297-1314
126.	1-1	Antigenic Index	1321-1329
127.	1-1	Antigenic Index	1334-1337
128	1-1	Antigenic Index	1345-1352
129.	1-1	Antigenic Index	1363-1379
130.	1-1	Antigenic Index	1391-1403
131.	1-1	Antigenic Index	1410-1419
132.	1-1	Antigenic Index	1424-1427
133.	1-1	Antigenic Index	1437-1450
134.	1-1	Hydrophilicity	1-23
135.	1-1	Hydrophilicity	56-64
136.	1-1	Hydrophilicity	66-82
137.	1-1	Hydrophilicity	84-86
138.	1-1	Hydrophilicity	124-136
139	1-1	Hydrophilicity	140-151
140.	1-1	Hydrophilicity	168-175
141.	1-1	Hydrophilicity	180-187
142.	1-1	Hydrophilicity	190-199
143.	1-1	Hydrophilicity	202-217
144.	1-1	Hydrophilicity	237-239
145.	1-1	Hydrophilicity	246-252
146.	1-1	Hydrophilicity	263-268
147	1-1	Hydrophilicity	276-279
148.	1-1	Hydrophilicity	302-304
149.	1-1	Hydrophilicity	324-328
150.	1-1	Hydrophilicity	331-359
151	1-1	Hydrophilicity	369-375
152.	1-1	Hydrophilicity	385-393
153.	1-1	Hydrophilicity	396-405
154.	1-1	Hydrophilicity	428-432
155.	1-1	Hydrophilicity	441-447
156.	1-1	Hydrophilicity	455-464
157.	1-1	Hydrophilicity	471-477

158.	1-1	Hydrophilicity	490-501
159.	1-1	<u>Hydrophilicity</u>	519-523
160.	1-1	Hydrophilicity	531-537
161.	1-1	Hydrophilicity	548-554
162.	1-1	Hydrophilicity	560-566
163.	1-1	Hydrophilicity	571-577
164.	1-1	Hydrophilicity	582-591
165.	1-1	Hydrophilicity	596-606
166.	1-1	Hydrophilicity	615-621
167.	1-1	Hydrophilicity	645-647
168.	1-1	Hydrophilicity	658-667
169.	1-1	Hydrophilicity	679-686
170	1-1	Hydrophilicity	697-703
171.	1-1	Hydrophilicity	729-731
172.	1-1	Hydrophilicity	737-748
173.	1-1	Hydrophilicity	752-756
174.	1-1	Hydrophilicity	761-764
175.	1-1	Hydrophilicity	782-788
176.	1-1	Hydrophilicity	843-849
177.	1-1	Hydrophilicity	860-862
178.	1-1	Hydrophilicity	869-873
179.	1-1	Hydrophilicity	878-892
180.	1-1	Hydrophilicity	916-922
181.	1-1	Hydrophilicity	927-943
182.	1-1	Hydrophilicity	950-956
183.	1-1	Hydrophilicity	964-967
184.	1-1	Hydrophilicity	981-993
185.	1-1	Hydrophilicity	1002-1008
186.	1-1	Hydrophilicity	1015-1025
187.	1-1	Hydrophilicity	1034-1037
188.	1-1	Hydrophilicity	1045-1054
189.	1-1	Hydrophilicity	1056-1083
190.	1-1	Hydrophilicity	1090-1111
191.	1-1	Hydrophilicity	1117-1144
192.	1-1	Hydrophilicity	1149-1159
193.	1-1	Hydrophilicity	1165-1174
194.	1-1	Hydrophilicity	1197-1210
195.	1-1	Hydrophilicity	1215-1238
196.	1-1	Hydrophilicity	1243-1249
197.	1-1	Hydrophilicity	1257-1269
198.	1-1	Hydrophilicity	1271-1273
199.	1-1	Hydrophilicity	1301-1304
200.	1-1	Hydrophilicity	1306-1314
201.	1-1	Hydrophilicity	1321-1325

202.	1-1	Hydrophilicity	1346-1352
203.	1-1	Hydrophilicity	1364-1371
204.	1-1	Hydrophilicity	1373-1375
205.	1-1	Hydrophilicity	1395-1403
206.	1-1	Hydrophilicity	1411-1419
207.	1-1	Hydrophilicity	1424-1427
208.	1-1	Hydrophilicity	1437-1447
208.	2-1	AMPHI	12-17
	<del></del>		22-34
210.	2-1	AMPHI	
211.	2-1	AMPHI	36-45
212.	2-1	AMPHI	58-62
213.	2-1	AMPHI	75-79
214.	2-1	AMPHI	87-101
215.	2-1	AMPHI	121-133
216.	2-1	AMPHI	144-146
217.	2-1	AMPHI	152-160
218.	2-1	AMPHI	167-170
219.	2-1	AMPHI	180-182
220.	2-1	AMPHI	187-194
221.	2-1	Antigenic Index	21-41
222.	2-1	Antigenic Index	44-52
223.	2-1	Antigenic Index	54-68
224.	2-1	Antigenic Index	72-88
225	2-1	Antigenic Index	90-141
226.	2-1	Antigenic Index	144-168
227.	2-1	Antigenic Index	200-228
228.	2-1	Antigenic Index	21-33
229.	2-1	Antigenic Index	35-41
230.	2-1	Antigenic Index	46-52
231.	2-1	Antigenic Index	54-68
232.	2-1	Antigenic Index	72-88
233.	2-1	Antigenic Index	90-108
234.	2-1	Antigenic Index	110-121
235.	2-1	Antigenic Index	124-126
236.	2-1	Antigenic Index	129-131
237.	2-1	Antigenic Index	134-141
238.	2-1	Antigenic Index	144-151
239.	2-1	Antigenic Index	154-168
240.	2-1	Antigenic Index	200-228
241.	2-1	Hydrophilicity	21-33
242.	2-1	Hydrophilicity	35-41
243.	2-1	Hydrophilicity	46-52
244.	2-1	Hydrophilicity	54-68
245.	2-1	Hydrophilicity	72-88

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246.	2-1	Hydrophilicity	90-108
247.	2-1	Hydrophilicity	110-121
248.	2-1	Hydrophilicity	124-126
249.	2-1	Hydrophilicity	129-131
250.	2-1	Hydrophilicity	134-141
251.	2-1	Hydrophilicity	144-151
252.	2-1	Hydrophilicity	154-168
253.	2-1	Hydrophilicity	200-228
254.	3-1	AMPHI	4-11
255.	3-1	AMPHI	46-49
256.	3-1	АМРНІ	52-56
257.	3-1	АМРНІ	61-65
258.	3-1	AMPHI	79-81
259.	3-1	АМРНІ	90-101
260.	3-1	АМРНІ	116-118
261.	3-1	AMPHI	122-124
262.	3-1	АМРНІ	136-140
263.	3-1	АМРНІ	214-216
264.	3-1	АМРНІ	218-225
265.	3-1	АМРНІ	238-245
266.	3-1	АМРНІ	271-273
267.	3-1	АМРНІ	336-342
268.	3-1	АМРНІ	387-391
269.	3-1	АМРНІ	397-403
270.	3-1	Antigenic Index	32-39
271.	3-1	Antigenic Index	43-55
272.	3-1	Antigenic Index	60-95
273.	3-1	Antigenic Index	102-105
274.	3-1	Antigenic Index	109-112
275.	3-1	Antigenic Index	122-135
276.	3-1	Antigenic Index	141-154
277.	3-1	Antigenic Index	179-181
278.	3-1	Antigenic Index	183-192
279.	3-1	Antigenic Index	196-203
280.	3-1	Antigenic Index	207-215
281.	3-1	Antigenic Index	222-226
282.	3-1	Antigenic Index	228-239
283.	3-1	Antigenic Index	252-260
284.	3-1	Antigenic Index	266-279
285.	3-1	Antigenic Index	291-297
286.	3-1	Antigenic Index	299-302
287.	3-1	Antigenic Index	317-323
288.	3-1	Antigenic Index	331-335
289.	3-1	Antigenic Index	345-357

290.	3-1	Antigenic Index	359-380
291.	3-1	Antigenic Index	387-393
292.	3-1	Antigenic Index	398-413
293.	3-1	Hydrophilicity	34-37
293.	3-1	Hydrophilicity	45-55
295.	3-1	Hydrophilicity	60-70
296.	3-1	Hydrophilicity	74-95
297.	3-1	Hydrophilicity	102-105
298.	3-1	Hydrophilicity	
298.	3-1		124-133
	<del></del>	Hydrophilicity	147-154
300.	3-1	Hydrophilicity	179-181
301.	3-1	Hydrophilicity	183-192
302.	3-1	Hydrophilicity	197-203
303.	3-1	Hydrophilicity	213-215
304	3-1	Hydrophilicity	222-226
305.	3-1	Hydrophilicity	228-236
306.	3-1	Hydrophilicity	253-255
307.	3-1	Hydrophilicity	257-260
308.	3-1	Hydrophilicity	268-279
309.	3-1	Hydrophilicity	293-295
310.	3-1	Hydrophilicity	318-320
311.	3-1	Hydrophilicity	331-333
312.	3-1	Hydrophilicity	354-357
313.	3-1	Hydrophilicity	365-375
314.	3-1	Hydrophilicity	387-391
315.	3-1	Hydrophilicity	398-412
316.	4-1	AMPHI	4-9
317.	4-1	АМРНІ	49-60
318.	4-1	AMPHI	75-82
319.	4-1	AMPHI	104-109
320.	4-1	AMPHI	116-121
321.	4-1	AMPHI	132-140
322.	4-1	АМРНІ	145-156
323.	4-1	AMPHI	162-165
324.	4-1	AMPHI	171-176
325.	4-1	AMPHI	184-191
326.	4-1	АМРНІ	198-200
327.	4-1	AMPHI	241-244
328.	4-1	АМРНІ	252-258
329.	4-1	AMPHI	263-266
330.	4-1	АМРНІ	270-281
331.	4-1	Antigenic Index	20-28
332.	4-1	Antigenic Index	34-45
333.	4-1	Antigenic Index	50-71

334.	4-1	Antigenic Index	80-83
335.	4-1	Antigenic Index	89-94
336.	4-1	Antigenic Index	101-115
337.	4-1	Antigenic Index	124-127
338.	4-1	Antigenic Index	131-145
339.	4-1	Antigenic Index	147-154
340.	4-1	Antigenic Index	168-175
341.	4-1	Antigenic Index	177-189
342.	4-1	Antigenic Index	199-207
343.	4-1	Antigenic Index	213-216
344.	4-1	Antigenic Index	220-225
345.	4-1	Antigenic Index	228-233
346.	4-1	Antigenic Index	243-251
347.	4-1	Antigenic Index	254-257
348.	4-1	Antigenic Index	259-264
349.	4-1	Antigenic Index	268-277
350.	4-1	Antigenic Index	282-287
351.	4-1	Hydrophilicity	21-28
352.	4-1	Hydrophilicity	34-45
353.	4-1	Hydrophilicity	53-71
354.	4-1	Hydrophilicity	89-94
355.	4-1	Hydrophilicity	102-115
356.	4-1	Hydrophilicity	131-144
357.	4-1	Hydrophilicity	147-153
358.	4-1	Hydrophilicity	168-173
359.	4-1	Hydrophilicity	177-189
360.	4-1	Hydrophilicity	199-207
361.	4-1	Hydrophilicity	222-225
362.	4-1	Hydrophilicity	243-251
363.	4-1	Hydrophilicity	254-257
364.	4-1	Hydrophilicity	270-276
365.	4-1	Hydrophilicity	284-287
366.	5-1	АМРНІ	11-35
367.	5-1	AMPHI	46-56
368.	5-1	AMPHI	71-73
369.	5-1	АМРНІ	79-83
370.	5-1	АМРНІ	105-107
371.	5-1	АМРНІ	112-117
372.	5-1	АМРНІ	127-130
373.	5-1	АМРНІ	141-151
374.	5-1	АМРНІ	161-164
375.	5-1	АМРНІ	168-186
376.	5-1	АМРНІ	192-197
377.	5-1	АМРНІ	210-217_

378.	5-1	AMPHI	228-230
379.	5-1	АМРНІ	256-259
380.	5-1	AMPHI	272-275
381.	5-1	AMPHI	287-289
382.	5-1	Antigenic Index	1-10
383.	5-1	Antigenic Index	18-28
384.	5-1	Antigenic Index	34-45
385.	5-1	Antigenic Index	47-54
386.	5-1	Antigenic Index	56-81
387.	5-1	Antigenic Index	90-92
388.	5-1	Antigenic Index	96-104
389.	5-1	Antigenic Index	112-114
390.	5-1	Antigenic Index	118-124
391.	5-1	Antigenic Index	127-129
392.	5-1	Antigenic Index	136-140
392. 393.	5-1	Antigenic Index  Antigenic Index	146-154
393. 394.	5-1	Antigenic Index	159-167
395.	5-1	Antigenic Index  Antigenic Index	173-175
395. 396.	5-1	Antigenic Index  Antigenic Index	178-194
390. 397.	5-1	Antigenic Index	199-204
397. 398.	5-1	Antigenic Index  Antigenic Index	209-215
398. 399.	5-1	Antigenic Index  Antigenic Index	
400.	5-1		218-275 293-299
	1	Antigenic Index	
401.	5-1	Hydrophilicity	1-7
402.	5-1	Hydrophilicity	18-28
403.	5-1	Hydrophilicity	34-42
404.	5-1	Hydrophilicity	47-54
405.	5-1	Hydrophilicity	56-81
406.	5-1	Hydrophilicity	96-104
407.	5-1	Hydrophilicity	112-114
408.	5-1	Hydrophilicity	127-129
409.	5-1	Hydrophilicity	136-140
410.	5-1	Hydrophilicity	146-153
411.	5-1	Hydrophilicity	161-164
412.	5-1	Hydrophilicity	173-175
413.	5-1	Hydrophilicity	178-194
414.	5-1	Hydrophilicity	199-204
415.	5-1	Hydrophilicity	209-213
416.	5-1	Hydrophilicity	222-250
417.	5-1	Hydrophilicity	253-263
418.	5-1	Hydrophilicity	267-275
419.	5-1	Hydrophilicity	294-299
420.	6-1	AMPHI	15-21
421.	6-1	AMPHI	29-34

400		1.1604	10.47
422.	6-1	AMPHI	40-47
423.	6-1	AMPHI	57-60
424.	6-1	AMPHI	67-72
425.	6-1	Antigenic Index	33-35
426.	6-1	Antigenic Index	44-49
427.	6-1	Antigenic Index	61-77
428	6-1	Hydrophilicity	61-77
429	7-1	AMPHI	4-7
430.	7-1	AMPHI	44-51
431.	7-1	AMPHI	73-75
432.	7-1	АМРНІ	83-88
433.	7-1	AMPHI	90-96
434.	7-1	АМРНІ	115-123
435.	7-1	АМРНІ	132-134
436.	7-1	АМРНІ	140-143
437.	7-1	АМРНІ	145-148
438.	7-1	AMPHI	174-187
439.	7-1	АМРНІ	199-202
440.	7-1	АМРНІ	244-246
441.	7-1	АМРНІ	266-269
442.	7-1	АМРНІ	309-319
443.	7-1	Antigenic Index	4-6
444.	7-1	Antigenic Index	26-35
445.	7-1	Antigenic Index	37-58
446.	7-1	Antigenic Index	77-88
447.	7-1	Antigenic Index	93-105
448.	7-1	Antigenic Index	109-141
449.	7-1	Antigenic Index	143-145
450.	7-1	Antigenic Index	148-169
451.	7-1	Antigenic Index	179-201
452.	7-1	Antigenic Index	209-223
453.	7-1	Antigenic Index	231-233
454.	7-1	Antigenic Index	237-243
455.	7-1	Antigenic Index	251-277
456.	7-1	Antigenic Index	281-287
457.	7-1	Antigenic Index	291-297
458.	7-1	Antigenic Index	303-311
459.	7-1	Antigenic Index	316-319
460.	7-1	Antigenic Index	322-324
461.	7-1	Antigenic Index	327-331
462.	7-1	Hydrophilicity	4-6
463.	7-1	Hydrophilicity	27-35
464.	7-1	Hydrophilicity	37-40
465.	7-1	Hydrophilicity	46-58
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466.	7-1	Hydrophilicity	83-85
467	7-1	Hydrophilicity	94-104
468.	7-1	Hydrophilicity	110-113
469.	7-1	Hydrophilicity	115-125
470.	7-1	Hydrophilicity	127-136
471.	7-1	Hydrophilicity	138-141
472.	7-1	Hydrophilicity	143-145
473.	7-1	Hydrophilicity	148-153
474.	7-1	Hydrophilicity	161-168
475.	7-1	Hydrophilicity	179-196
476.	7-1	Hydrophilicity	199-201
477.	7-1	Hydrophilicity	209-223
478	7-1	Hydrophilicity	231-233
479.	7-1	Hydrophilicity	237-239
480.	7-1	Hydrophilicity	251-265
481.	7-1	Hydrophilicity	285-287
482.	7-1	Hydrophilicity	293-296
483.	7-1	Hydrophilicity	304-307
484.	7-1	Hydrophilicity	316-319
485.	7-1	Hydrophilicity	322-324
486.	7-1	Hydrophilicity	327-331
487.	9-1	АМРНІ	4-7
488.	9-1	АМРНІ	9-12
489.	9-1	АМРНІ	31-41
490.	9-1	AMPHI	64-72
491.	9-1	АМРНІ	88-90
492.	9-1	АМРНІ	104-108
493.	9-1	AMPHI	115-119
494.	9-1	АМРНІ	126-133
495.	9-1	AMPHI	137-139
496.	9-1	АМРНІ	144-147
497.	9-1	AMPHI	154-163
498.	9-1	AMPHI	191-197
499.	9-1	АМРНІ	205-208
500.	9-1	AMPHI	211-213
501.	9-1	АМРНІ	227-235
502.	9-1	AMPHI	254-262
503.	9-1	AMPHI	266-279
504.	9-1	AMPHI	281-294
505.	9-1	AMPHI	324-329
506.	9-1	AMPHI	334-340
507.	9-1	AMPHI	359-370
508.	9-1	AMPHI	395-407
509.	9-1	AMPHI	417-422

510.         9-1         AMPHI         425-429           511.         9-1         AMPHI         436-446           512.         9-1         AMPHI         467-469           513.         9-1         AMPHI         476-483           514.         9-1         AMPHI         493-495           515.         9-1         AMPHI         505-509           516.         9-1         AMPHI         512-514           517.         9-1         AMPHI         561-566           518.         9-1         AMPHI         578-581           519.         9-1         AMPHI         578-581           519.         9-1         AMPHI         578-581           519.         9-1         AMPHI         578-581           519.         9-1         Antigenic Index         2.7           521.         9-1         Antigenic Index         2.7           522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         126-173           524.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         128-227			Lagran	105 100
512.         9-1         AMPHI         467-469           513.         9-1         AMPHI         476-483           514.         9-1         AMPHI         493-495           515.         9-1         AMPHI         505-509           516.         9-1         AMPHI         512-514           517.         9-1         AMPHI         512-514           518.         9-1         AMPHI         504-599           518.         9-1         AMPHI         594-599           520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         23-59           520.         9-1         Antigenic Index         23-59           521.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         96-109           524.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         129-227           528.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index <t< td=""><td></td><td><del></del></td><td></td><td></td></t<>		<del></del>		
513.         9-1         AMPHI         476-483           514.         9-1         AMPHI         493-495           515.         9-1         AMPHI         505-509           516.         9-1         AMPHI         512-514           517.         9-1         AMPHI         561-566           518.         9-1         AMPHI         594-599           518.         9-1         AMPHI         594-599           520.         9-1         AMPHI         594-599           520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         23-59           522.         9-1         Antigenic Index         77-84           521.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         18-109           525.         9-1         Antigenic Index         183-202           525.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         22				
514.         9-1         AMPHI         493-495           515.         9-1         AMPHI         505-509           516.         9-1         AMPHI         512-514           517.         9-1         AMPHI         561-566           518.         9-1         AMPHI         578-581           519.         9-1         AMPHI         594-599           520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         23-59           522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         126-173           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         205-207           528.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         229-227           531.         9-1         Antigenic Index         220-270           532.         9-1         Antigenic I		<del></del>		
515.         9-1         AMPHI         505-509           516.         9-1         AMPHI         512-514           517.         9-1         AMPHI         561-566           518.         9-1         AMPHI         578-581           519.         9-1         AMPHI         594-599           520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         23-59           522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         61-67           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         307-307           534.         9-1         A		·	<u> </u>	
516.         9-1         AMPHI         512-514           517.         9-1         AMPHI         561-566           518.         9-1         AMPHI         578-581           519.         9-1         AMPHI         594-599           520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         23-59           522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         205-207           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         287-294           532.         9-1         Antigenic Index         300-307           534.         9-1		<del></del>		
517.         9-1         AMPHI         561-566           518.         9-1         AMPHI         578-581           519.         9-1         AMIGENIA         594-599           520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         61-67           521.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         96-109           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         205-207           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         232-242           530.         9-1         Antigenic Index         230-270           532.         9-1         Antigenic Index         300-307           533.         9-1         Antigenic Index         317-324           533.         9-1         Antigenic Index         317-324           535. <t< td=""><td></td><td></td><td>AMPHI</td><td></td></t<>			AMPHI	
518.         9-1         AMPHI         578-581           519.         9-1         AMPHI         594-599           520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         23-59           522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         118-121           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         287-294           532.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         333-361           537.	516.	· · · · · · · · · · · · · · · · · · ·	АМРНІ	512-514
519.         9-1         AMPHI         594-599           520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         23-59           522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         205-207           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         230-270           531.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         364-371           538.	517.		АМРНІ	561-566
520.         9-1         Antigenic Index         2-7           521.         9-1         Antigenic Index         23-59           522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         205-207           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         317-324           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         364-371	518.	9-1	АМРНІ	578-581
521.         9-1         Antigenic Index         23-59           522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         364-371	519.	9-1	AMPHI	594-599
522.         9-1         Antigenic Index         61-67           523.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         364-371           538.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         387-396	520.	9-1	Antigenic Index	2-7
523.         9-1         Antigenic Index         77-84           524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         205-207           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         375-380           538.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         387-396 <tr< td=""><td>521.</td><td>9-1</td><td>Antigenic Index</td><td>23-59</td></tr<>	521.	9-1	Antigenic Index	23-59
524.         9-1         Antigenic Index         96-109           525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         364-371           538.         9-1         Antigenic Index         364-371           538.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         388-414           541.         9-1         Antigenic Index         416-419      <	522.	9-1	Antigenic Index	61-67
525.         9-1         Antigenic Index         118-121           526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         317-324           536.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         364-371           538.         9-1         Antigenic Index         375-380           539.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         398-414           541.         9-1         Antigenic Index         416-419	523.	9-1	Antigenic Index	77-84
526.         9-1         Antigenic Index         126-173           527.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         287-294           532.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         375-380           539.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         398-414           541.         9-1         Antigenic Index         398-414           542.         9-1         Antigenic Index         416-419           542.         9-1         Antigenic Index         428-456           543.         9-1         Antigenic Index         428-456	524.	9-1	Antigenic Index	96-109
527.         9-1         Antigenic Index         183-202           528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         364-371           538.         9-1         Antigenic Index         364-371           539.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         388-414           541.         9-1         Antigenic Index         416-419           542.         9-1         Antigenic Index         428-456           543.         9-1         Antigenic Index         428-456           544.         9-1         Antigenic Index         502-511	525.	9-1	Antigenic Index	118-121
528.         9-1         Antigenic Index         205-207           529.         9-1         Antigenic Index         219-227           530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         364-371           538.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         398-414           541.         9-1         Antigenic Index         416-419           542.         9-1         Antigenic Index         428-456           543.         9-1         Antigenic Index         468-489           544.         9-1         Antigenic Index         502-511	526.	9-1	Antigenic Index	126-173
529.       9-1       Antigenic Index       219-227         530.       9-1       Antigenic Index       232-242         531.       9-1       Antigenic Index       250-270         532.       9-1       Antigenic Index       287-294         533.       9-1       Antigenic Index       300-307         534.       9-1       Antigenic Index       317-324         535.       9-1       Antigenic Index       328-345         536.       9-1       Antigenic Index       353-361         537.       9-1       Antigenic Index       364-371         538.       9-1       Antigenic Index       387-396         539.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560 <td< td=""><td>527.</td><td>9-1</td><td>Antigenic Index</td><td>183-202</td></td<>	527.	9-1	Antigenic Index	183-202
530.         9-1         Antigenic Index         232-242           531.         9-1         Antigenic Index         250-270           532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         364-371           538.         9-1         Antigenic Index         375-380           539.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         398-414           541.         9-1         Antigenic Index         416-419           542.         9-1         Antigenic Index         428-456           543.         9-1         Antigenic Index         468-489           544.         9-1         Antigenic Index         495-498           545.         9-1         Antigenic Index         502-511           546.         9-1         Antigenic Index         537-544	528.	9-1	Antigenic Index	205-207
531.       9-1       Antigenic Index       250-270         532.       9-1       Antigenic Index       287-294         533.       9-1       Antigenic Index       300-307         534.       9-1       Antigenic Index       317-324         535.       9-1       Antigenic Index       328-345         536.       9-1       Antigenic Index       353-361         537.       9-1       Antigenic Index       364-371         538.       9-1       Antigenic Index       375-380         539.       9-1       Antigenic Index       387-396         540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       586-614 <td< td=""><td>529.</td><td>9-1</td><td>Antigenic Index</td><td>219-227</td></td<>	529.	9-1	Antigenic Index	219-227
532.         9-1         Antigenic Index         287-294           533.         9-1         Antigenic Index         300-307           534.         9-1         Antigenic Index         317-324           535.         9-1         Antigenic Index         328-345           536.         9-1         Antigenic Index         353-361           537.         9-1         Antigenic Index         364-371           538.         9-1         Antigenic Index         375-380           539.         9-1         Antigenic Index         387-396           540.         9-1         Antigenic Index         398-414           541.         9-1         Antigenic Index         416-419           542.         9-1         Antigenic Index         428-456           543.         9-1         Antigenic Index         468-489           544.         9-1         Antigenic Index         495-498           545.         9-1         Antigenic Index         502-511           546.         9-1         Antigenic Index         537-544           548.         9-1         Antigenic Index         549-560           549.         9-1         Antigenic Index         572-577	530.	9-1	Antigenic Index	232-242
533.       9-1       Antigenic Index       300-307         534.       9-1       Antigenic Index       317-324         535.       9-1       Antigenic Index       328-345         536.       9-1       Antigenic Index       353-361         537.       9-1       Antigenic Index       364-371         538.       9-1       Antigenic Index       375-380         539.       9-1       Antigenic Index       398-414         540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.	531.	9-1	Antigenic Index	250-270
534.       9-1       Antigenic Index       317-324         535.       9-1       Antigenic Index       328-345         536.       9-1       Antigenic Index       353-361         537.       9-1       Antigenic Index       364-371         538.       9-1       Antigenic Index       375-380         539.       9-1       Antigenic Index       387-396         540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.	532.	9-1	Antigenic Index	287-294
535.       9-1       Antigenic Index       328-345         536.       9-1       Antigenic Index       353-361         537.       9-1       Antigenic Index       364-371         538.       9-1       Antigenic Index       375-380         539.       9-1       Antigenic Index       387-396         540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	533.	9-1	Antigenic Index	300-307
536.       9-1       Antigenic Index       353-361         537.       9-1       Antigenic Index       364-371         538.       9-1       Antigenic Index       375-380         539.       9-1       Antigenic Index       387-396         540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	534.	9-1	Antigenic Index	317-324
537.       9-1       Antigenic Index       364-371         538.       9-1       Antigenic Index       375-380         539.       9-1       Antigenic Index       387-396         540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	535.	9-1	Antigenic Index	328-345
538.       9-1       Antigenic Index       375-380         539.       9-1       Antigenic Index       387-396         540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	536.	9-1	Antigenic Index	353-361
539.       9-1       Antigenic Index       387-396         540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	537.	9-1	Antigenic Index	364-371
540.       9-1       Antigenic Index       398-414         541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	538.	9-1	Antigenic Index	375-380
541.       9-1       Antigenic Index       416-419         542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	539.	9-1	Antigenic Index	387-396
542.       9-1       Antigenic Index       428-456         543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	540.	9-1	Antigenic Index	398-414
543.       9-1       Antigenic Index       468-489         544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	541.	9-1	Antigenic Index	416-419
544.       9-1       Antigenic Index       495-498         545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	542.	9-1	Antigenic Index	428-456
545.       9-1       Antigenic Index       502-511         546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	543.	9-1	Antigenic Index	468-489
546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	544.	9-1	Antigenic Index	495-498
546.       9-1       Antigenic Index       520-531         547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	545.	9-1	Antigenic Index	502-511
547.       9-1       Antigenic Index       537-544         548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	546.	9-1		520-531
548.       9-1       Antigenic Index       549-560         549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59	547.	9-1		537-544
549.       9-1       Antigenic Index       572-577         550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59		9-1		549-560
550.       9-1       Antigenic Index       586-614         551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59		9-1		572-577
551.       9-1       Hydrophilicity       4-7         552.       9-1       Hydrophilicity       27-59		9-1		
552. 9-1 Hydrophilicity 27-59				

554.	9-1	Hydrophilicity	77-84
555.	9-1	Hydrophilicity	96-109
556	9-1	Hydrophilicity	118-121
557.	9-1	Hydrophilicity	133-143
558.	9-1	Hydrophilicity	147-155
559.	9-1	Hydrophilicity	157-173
560.	9-1	Hydrophilicity	187-202
561.	9-1	Hydrophilicity	205-207
562.	9-1	Hydrophilicity	219-227
563.	9-1	Hydrophilicity	232-240
564.	9-1	Hydrophilicity	250-258
565.	9-1	Hydrophilicity	263-270
566.	9-1	Hydrophilicity	287-294
567.	9-1	Hydrophilicity	300-305
568.	9-1	Hydrophilicity	317-324
569.	9-1	Hydrophilicity	329-345
570.	9-1	Hydrophilicity	353-361
571.	9-1	Hydrophilicity	364-366
572.	9-1	Hydrophilicity	369-371
573.	9-1	Hydrophilicity	387-396
574.	9-1	Hydrophilicity	398-410
575.	9-1	Hydrophilicity	417-419
<u>57</u> 6.	9-1	Hydrophilicity	428-448
577.	9-1	Hydrophilicity	450-456
578.	9-1	Hydrophilicity	468-489
579.	9-1	Hydrophilicity	502-509
580.	9-1	Hydrophilicity	521-527
581.	9-1	Hydrophilicity	539-543
582.	9-1	Hydrophilicity	552-560
583.	9-1	Hydrophilicity	572-577
584.	9-1	Hydrophilicity	588-602
585.	9-1	Hydrophilicity	607-614
586.	10-1	AMPHI	6-8
587.	10-1	АМРНІ	13-16
588.	10-1	AMPHI	35-38
589.	10-1	АМРНІ	62-65
590.	10-1	AMPHI	88-91
591.	10-1	АМРНІ	163-165
592.	10-1	АМРНІ	173-182
593.	10-1	АМРНІ	198-200
594.	10-1	АМРНІ	222-226
595.	10-1	АМРНІ	239-247
596.	10-1	АМРНІ	264-273
597.	10-1	АМРНІ	275-278

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598.	10-1	АМРНІ	306-313
599.	10-1	AMPHI	319-321
600.	10-1	АМРНІ	339-343
601.	10-1	AMPHI	349-351
602.	10-1	AMPHI	360-366
603.	10-1	AMPHI	403-410
604.	10-1	АМРНІ	431-435
605.	10-1	АМРНІ	440-450
606.	10-1	АМРНІ	459-465
607.	10-1	Antigenic Index	1-5
608.	10-1	Antigenic Index	32-38
609.	10-1	Antigenic Index	66-74
610.	10-1	Antigenic Index	95-103
611.	10-1	Antigenic Index	108-111
612.	10-1	Antigenic Index	135-139
613.	10-1	Antigenic Index	192-200
614.	10-1	Antigenic Index	202-205
615.	10-1	Antigenic Index	231-237
616.	10-1	Antigenic Index	277-287
617.	10-1	Antigenic Index	289-293
618.	10-1	Antigenic Index	317-321
619.	10-1	Antigenic Index	349-357
620.	10-1	Antigenic Index	376-382
621.	10-1	Antigenic Index	397-405
622.	10-1	Antigenic Index	408-411
623.	10-1	Antigenic Index	423-425
624.	10-1	Antigenic Index	434-436
625.	10-1	Antigenic Index	453-460
626.	10-1	Antigenic Index	467-470
627.	10-1	Hydrophilicity	1-5
628.	10-1	Hydrophilicity	34-37
629.	10-1	Hydrophilicity	66-74
630.	10-1	Hydrophilicity	97-100
631.	10-1	Hydrophilicity	108-111
632.	10-1	Hydrophilicity	135-139
633.	10-1	Hydrophilicity	192-200
634.	10-1	Hydrophilicity	231-233
635.	10-1	Hydrophilicity	235-237
636.	10-1	Hydrophilicity	277-287
637.	10-1	Hydrophilicity	289-293
638.	10-1	Hydrophilicity	349-355
639.	10-1	Hydrophilicity	378-382
640.	10-1	Hydrophilicity	398-403
641.	10-1	Hydrophilicity	453-460

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642.	11-1	AMPHI	4-10
643.	11-1	AMPHI	20-24
644.	11-1	AMPHI	27-30
645.	11-1	АМРНІ	61-66
646.	11-1	AMPHI	72-78
647.	11-1	АМРНІ	109-111
648.	11-1	AMPHI	117-120
649.	11-1	АМРНІ	152-157
650.	11-1	AMPHI	186-191
651.	11-1	АМРНІ	202-205
652.	11-1	AMPHI	214-216
653.	11-1	AMPHI	221-223
654.	11-1	АМРНІ	228-230
655.	11-1	AMPHI	237-239
656.	11-1	AMPHI	242-248
657.	11-1	AMPHI	293-295
658.	11-1	AMPHI	317-322
659.	11-1	AMPHI	327-331
660.	11-1	AMPHI	346-352
661.	11-1	AMPHI	377-381
662.	11-1	АМРНІ	409-411
663.	11-1	АМРНІ	418-428
664.	11-1	AMPHI	440-443
665.	11-1	АМРНІ	451-459
666.	11-1	AMPHI	479-481
667.	11-1	AMPHI	492-497
668.	11-1	АМРНІ	520-523
669.	11-1	AMPHI	532-537
670.	11-1	Antigenic Index	1-5
671.	11-1	Antigenic Index	22-38
672.	11-1	Antigenic Index	66-76
673.	11-1	Antigenic Index	82-91
674.	11-1	Antigenic Index	95-102
675.	11-1	Antigenic Index	108-111
676.	11-1	Antigenic Index	124-153
677.	11-1	Antigenic Index	158-161
678.	11-1	Antigenic Index	172-178
679.	11-1	Antigenic Index	180-198
680.	11-1	Antigenic Index	210-216
681.	11-1	Antigenic Index	219-244
682.	11-1	Antigenic Index	258-265
683.	11-1	Antigenic Index	272-287
684.	11-1	Antigenic Index	297-303
685.	11-1	Antigenic Index	310-313

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686.	11-1	Antigenic Index	325-333
687.	11-1	Antigenic Index	338-340
688.	11-1	Antigenic Index	352-354
689.	11-1	Antigenic Index	375-377
690.	11-1	Antigenic Index	379-387
691.	11-1	Antigenic Index	391-404
692.	11-1	Antigenic Index	412-422
693	11-1	Antigenic Index	445-448
694.	11-1	Antigenic Index	457-464
695	11-1	Antigenic Index	481-490
696.	11-1	Antigenic Index	529-545
697.	11-1	Hydrophilicity	1-5
698	11-1	Hydrophilicity	22-38
699.	11-1	Hydrophilicity	66-76
700.	11-1	Hydrophilicity	82-91
701.	11-1	Hydrophilicity	95-102
702.	11-1	Hydrophilicity	108-111
703.	11-1	Hydrophilicity	124-153
704.	11-1	Hydrophilicity	158-161
705.	11-1	Hydrophilicity	172-178
706.	11-1	Hydrophilicity	180-198
707.	11-1	Hydrophilicity	210-216
708.	11-1	Hydrophilicity	219-244
709.	11-1	Hydrophilicity	258-265
710.	11-1	Hydrophilicity	272-287
711.	11-1	Hydrophilicity	297-303
712.	11-1	Hydrophilicity	310-313
713.	11-1	Hydrophilicity	325-333
714.	11-1	Hydrophilicity	338-340
715.	11-1	Hydrophilicity	352-354
716.	11-1	Hydrophilicity	375-377
717.	11-1	Hydrophilicity	379-387
718.	11-1	Hydrophilicity	391-404
719.	11-1	Hydrophilicity	412-422
720.	11-1	Hydrophilicity	445-448
721.	11-1	Hydrophilicity	457-464
722.	11-1	Hydrophilicity	481-490
723.	11-1	Hydrophilicity	529-545
724.	12-1	АМРНІ	1-5
725.	12-1	AMPHI	22-38
726.	12-1	AMPHI	66-76
727.	12-1	AMPHI	82-91
728.	12-1	AMPHI	95-102
729.	12-1	AMPHI	108-111

730.	12-1	AMPHI	124-153
731.	12-1	AMPHI	158-161
731.	12-1	AMPHI	172-178
732.	12-1	AMPHI	180-198
734.	12-1	AMPHI	210-216
734.	12-1	AMPHI	219-244
736.	12-1	AMPHI	258-265
730.	12-1	AMPHI	272-287
737.	12-1	AMPHI	297-303
739.	12-1	AMPHI	310-313
740.	12-1	AMPHI	325-333
741.	12-1	AMPHI	338-340
741.	12-1	AMPHI	352-354
		AMPHI	375-377
743. 744.	12-1	AMPHI	379-387
745.		AMPHI	391-404
F	12-1		412-422
746.	12-1	AMPHI	445-448
747.	12-1	AMPHI	
748.	12-1	AMPHI	457-464
749.	12-1	AMPHI	481-490
750.	12-1	AMPHI	529-545
751.	12-1	Antigenic Index	1-12
752.	12-1	Antigenic Index	23-25
753.	12-1	Antigenic Index	50-67
754.	12-1	Antigenic Index	108-113
755.	12-1	Antigenic Index	123-131
756.	12-1	Antigenic Index	141-147
757.	12-1	Antigenic Index	164-169
758.	12-1	Antigenic Index	180-183
759.	12-1	Antigenic Index	239-271
760.	12-1	Antigenic Index	293-307
761.	12-1	Antigenic Index	309-311
762.	12-1	Antigenic Index	332-343
763.	12-1	Antigenic Index	349-352
764.	12-1	Antigenic Index	375-377
765.	12-1	Antigenic Index	391-396
766.	12-1	Antigenic Index	446-449
767.	12-1	Antigenic Index	471-478
768.	12-1	Antigenic Index	512-514
769.	12-1	Hydrophilicity	2-12
770.	12-1	Hydrophilicity	52-65
771.	12-1	Hydrophilicity	108-113
772.	12-1	Hydrophilicity	125-130
773.	12-1	Hydrophilicity	144-146

774.	12-1	Hydrophilicity	239-242
775.	12-1	Hydrophilicity	252-264
776.	12-1	Hydrophilicity	296-302
777.	12-1	Hydrophilicity	332-343
778.	12-1	Hydrophilicity	391-393
779.	12-1	Hydrophilicity	446-449
780.	12-1	Hydrophilicity	471-477
	13-1	AMPHI	6-8
781. 782.		AMPHI	44-46
	13-1		57-60
783.	13-1	AMPHI	
784.	13-1	AMPHI	65-68
785.	13-1	AMPHI	72-79
786.	13-1	Antigenic Index	56-73
787.	13-1	Antigenic Index	78-88
788.	13-1	Antigenic Index	91-95
789.	13-1	Antigenic Index	97-109
790.	13-1	Antigenic Index	112-119
791.	13-1	Hydrophilicity	56-71
792.	13-1	Hydrophilicity	100-109
793.	13-1	Hydrophilicity	112-119
794	15-1	AMPHI	18-25
795.	15-1	AMPHI	48-51
796.	15-1	АМРНІ	55-57
797.	15-1	AMPHI	85-87
798.	15-1	AMPHI	93-95
799.	15-1	AMPHI	110-114
800.	15-1	AMPHI	118-129
801.	15-1	AMPHI	153-156
802.	15-1	AMPHI	172-177
803.	15-1	AMPHI	183-190
804.	15-1	АМРНІ	203-206
805.	15-1	AMPHI	234-236
806.	15-1	АМРНІ	247-251
807.	15-1	AMPHI	264-273
808.	15-1	AMPHI	278-282
809.	15-1	АМРНІ	284-290
810.	15-1	AMPHI	300-304
811.	15-1	АМРНІ	309-319
812.	15-1	Antigenic Index	18-20
813.	15-1	Antigenic Index	26-36
814.	15-1	Antigenic Index	38-40
815.	15-1	Antigenic Index	47-54
816.	15-1	Antigenic Index	58-61
817.	15-1	Antigenic Index	69-80

818.	15-1	Antigenic Index	86-88
819.	15-1	Antigenic Index	91-117
820.	15-1	Antigenic Index	132-147
821.	15-1	Antigenic Index	153-171
822.	15-1	Antigenic Index	184-186
823.	15-1	Antigenic Index	191-195
824.	15-1	Antigenic Index	207-212
825.	15-1	Antigenic Index	219-226
826.	15-1	Antigenic Index	233-247
827.	15-1	Antigenic Index	251-256
828.	15-1	Antigenic Index	263-275
829.	15-1	Antigenic Index	280-320
830.	15-1	Hydrophilicity	29-36
831.	15-1	Hydrophilicity	38-40
832.	15-1	Hydrophilicity	47-54
833.	15-1	Hydrophilicity	58-61
834.	15-1	Hydrophilicity	70-74
835.	15-1	Hydrophilicity	86-88
836.	15-1	Hydrophilicity	97-100
837.	15-1	Hydrophilicity	106-115
838.	15-1	Hydrophilicity	132-147
839.	15-1	Hydrophilicity	155-170
840.	15-1	Hydrophilicity	191-195
841.	15-1	Hydrophilicity	207-212
842.	15-1	Hydrophilicity	219-226
843.	15-1	Hydrophilicity	233-247
844.	15-1	Hydrophilicity	251-254
845.	15-1	Hydrophilicity	264-273
846.	15-1	Hydrophilicity	294-303
847.	15-1	Hydrophilicity	306-320
848.	16-1	AMPHI	14-16
849.	16-1	AMPHI	41-48
850.	16-1	AMPHI	65-73
851.	16-1	AMPHI	98-106
852.	16-1	AMPHI	120-122
853.	16-1	АМРНІ	143-145
854.	16-1	AMPHI	151-153
855.	16-1	AMPHI	165-167
856.	16-1	AMPHI	175-179
857.	16-1	AMPHI	190-193
858.	16-1	AMPHI	230-235
859.	16-1	AMPHI	249-256
860.	16-1	AMPHI	264-268
861.			
861	16-1	AMPHI	301-316

862.	16-1	АМРНІ	326-332
863.	16-1	AMPHI	337-339
864.	16-1	AMPHI	344-349
865.	16-1	AMPHI	371-376
866.	16-1	АМРНІ	389-397
867.	16-1	АМРНІ	405-411
868.	16-1	АМРНІ	419-423
869.	16-1	АМРНІ	437-440
870.	16-1	Antigenic Index	1-12
871.	16-1	Antigenic Index	38-43
872.	16-1	Antigenic Index	50-57
873.	16-1	Antigenic Index	77-91
874.	16-1	Antigenic Index	110-113
875.	16-1	Antigenic Index	152-161
876.	16-1	Antigenic Index	190-196
877.	16-1	Antigenic Index	222-232
878.	16-1	Antigenic Index	241-247
879.	16-1	Antigenic Index	253-256
880.	16-1	Antigenic Index	280-283
881.	16-1	Antigenic Index	291-298
882.	16-1	Antigenic Index	300-305
883.	16-1	Antigenic Index	327-333
884.	16-1	Antigenic Index	385-392
885.	16-1	Antigenic Index	397-400
886.	16-1	Antigenic Index	444-451
887.	16-1	Hydrophilicity	8-12
888.	16-1	Hydrophilicity	52-54
889.	16-1	Hydrophilicity	80-91
890	16-1	Hydrophilicity	152-159
891.	16-1	Hydrophilicity	190-196
892.	16-1	Hydrophilicity	222-232
893.	16-1	Hydrophilicity	241-247
894.	16-1	Hydrophilicity	253-256
895.	16-1	Hydrophilicity	293-295
896.	16-1	Hydrophilicity	327-333
897.	16-1	Hydrophilicity	446-449
898.	17-1	AMPHI	20-25
899.	17-1	АМРНІ	43-47
900.	17-1	AMPHI	65-71
901.	17-1	AMPHI:	87-90
902.	17-1	AMPHI	93-100
903.	17-1	AMPHI	125-127
904.	17-1	АМРНІ	134-136
905.	17-1	AMPHI	138-159

906.	17-1	AMPHI	179-181
907.	17-1	AMPHI	195-203
908.	17-1	AMPHI	207-209
909.	17-1	AMPHI	221-225
910.	17-1	AMPHI	239-241
911.	17-1	Antigenic Index	26-29
912.	17-1	Antigenic Index	73-81
913.	17-1	Antigenic Index	127-140
914.	17-1	Antigenic Index	161-164
915.	17-1	Antigenic Index	181-186
916.	17-1	Antigenic Index	209-212
917.	17-1	Antigenic Index	239-250
918.	17-1	Hydrophilicity	74-81
919.	17-1	Hydrophilicity	127-137
920.	17-1	Hydrophilicity	239-250
921.	18-1	AMPHI	8-12
922.	18-1	AMPHI	49-54
923.	18-1	AMPHI	70-72
924.	18-1	AMPHI	98-100
925.	18-1	AMPHI	113-122
926.	18-1	AMPHI	134-138
927.	18-1	AMPHI	169-172
928.	18-1	AMPHI	180-187
929.	18-1	Antigenic Index	78-96
930.	18-1	Antigenic Index	123-125
931.	18-1	Antigenic Index	162-173
932.	18-1	Antigenic Index	175-177
933.	18-1	Antigenic Index	198-201
934.	18-1	Hydrophilicity	80-86
935.	18-1	Hydrophilicity	91-95
936.	18-1	Hydrophilicity	162-169
937.	18-1	Hydrophilicity	198-201
938.	19-1	AMPHI	12-21
939.	19-1	AMPHI	47-50
940.	19-1	AMPHI	58-64
941.	19-1	АМРНІ	70-74
942.	19-1	AMPHI	99-102
943.	19-1	АМРНІ	119-122
944.	19-1	AMPHI	159-175
945.	19-1	AMPHI	182-184
946.	19-1	AMPHI	206-213
947.	19-1	AMPHI	226-235
948.	19-1	AMPHI	241-247
949.	19-1	AMPHI	254-261

950.	19-1	АМРНІ	269-274
950.	19-1		279-283
		AMPHI	··
952.	19-1	AMPHI	288-291
953.	19-1	AMPHI	297-308
954.	19-1	AMPHI	310-313
955.	19-1	AMPHI	323-342
956.	19-1	AMPHI	366-373
957.	19-1	AMPHI	385-387
958.	19-1	AMPHI	400-404
959.	19-1	AMPHI	440-444
960.	19-1	AMPHI	446-451
961.	19-1	АМРНІ	474-476
962.	19-1	AMPHI	489-491
963.	19-1	АМРНІ	506-512
964.	19-1	АМРНІ	549-555
965.	19-1	AMPHI	559-563
966.	19-1	АМРНІ	581-598
967.	19-1	AMPHI	604-606
968.	19-1	AMPHI	613-621
969.	19-1	AMPHI	648-652
970.	19-1	AMPHI	658-661
971.	19-1	АМРНІ	663-668
972.	19-1	АМРНІ	672-676
973.	19-1	АМРНІ	688-693
974.	19-1	АМРНІ	695-707
975.	19-1	Antigenic Index	31-35
976.	19-1	Antigenic Index	49-61
977.	19-1	Antigenic Index	81-83
978.	19-1	Antigenic Index	125-129
979.	19-1	Antigenic Index	156-165
980.	19-1	Antigenic Index	167-170
981.	19-1	Antigenic Index	176-187
982.	19-1	Antigenic Index	194-197
983.	19-1	Antigenic Index	210-213
984.	19-1	Antigenic Index	219-232
985.	19-1	Antigenic Index	241-248
986.	19-1	Antigenic Index  Antigenic Index	251-265
987.	19-1	Antigenic Index	276-285
988.	19-1	Antigenic Index	287-310
989.	19-1	Antigenic Index	312-340
989.	19-1	Antigenic Index  Antigenic Index	343-372
991.	19-1	Antigenic Index	376-384
992.	19-1	Antigenic Index	423-436
993.	19-1	Antigenic Index	455-457

994.	19-1	Antigenic Index	474-479
995.	19-1	Antigenic Index	526-529
996.	19-1	Antigenic Index	535-538
997.	19-1	Antigenic Index	551-577
998.	19-1	Antigenic Index	584-602
999.	19-1	Antigenic Index	620-634
1000.	19-1	Antigenic Index	652-663
1001.	19-1	Antigenic Index	665-683
1002.	19-1	Antigenic Index	695-716
1003.	19-1	Hydrophilicity	31-35
1004.	19-1	Hydrophilicity	49-61
1005.	19-1	Hydrophilicity	160-165
1006.	19-1	Hydrophilicity	176-187
1007.	19-1	Hydrophilicity	194-197
1008.	19-1	Hydrophilicity	220-231
1009.	19-1	Hydrophilicity	241-247
1010.	19-1	Hydrophilicity	252-262
1011.	19-1	Hydrophilicity	277-285
1012.	19-1	Hydrophilicity	287-291
1013.	19-1	Hydrophilicity	293-295
1014.	19-1	Hydrophilicity	297-310
1015.	19-1	Hydrophilicity	312-330
1016.	19-1	Hydrophilicity	333-335
1017.	19-1	Hydrophilicity	337-339
1018.	19-1	Hydrophilicity	347-361
1019.	19-1	Hydrophilicity	365-367
1020.	19-1	Hydrophilicity	378-380
1021.	19-1	Hydrophilicity	428-436
1022.	19-1	Hydrophilicity	535-538
1023.	19-1	Hydrophilicity	551-577
1024.	19-1	Hydrophilicity	585-597
1025.	19-1	Hydrophilicity	622-632
1026.	19-1	Hydrophilicity	653-662
1027.	19-1	Hydrophilicity	665-678
1028.	19-1	Hydrophilicity	695-697
1029.	19-1	Hydrophilicity	707-713
1030.	20-1	AMPHI	4-11
1031.	20-1	AMPHI	16-22
1032.	20-1	AMPHI	30-34
1033.	20-1	АМРНІ	47-55
1034.	20-1	AMPHI	60-62
1035.	20-1	АМРНІ	78-80
1036.	20-1	АМРНІ	83-91
1037.	20-1	AMPHI	99-105

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1038.	20-1	АМРНІ	143-515
1039.	20-1	АМРНІ	164-167
1040.	20-1	АМРНІ	196-199
1041.	20-1	АМРНІ	214-217
1042.	20-1	АМРНІ	226-233
1043.	20-1	АМРНІ	251-257
1044.	20-1	АМРНІ	270-284
1045.	20-1	АМРНІ	293-295
1046.	20-1	АМРНІ	301-307
1047.	20-1	АМРНІ	342-345
1048.	20-1	АМРНІ	362-364
1049.	20-1	AMPHI	369-373
1050.	20-1	АМРНІ	381-384
1051.	20-1	AMPHI	389-392
1052.	20-1	AMPHI	395-397
1053.	20-1	AMPHI	401-407
1054.	20-1	AMPHI	417-419
1055.	20-1	АМРНІ	441-446
1056.	20-1	AMPHI	475-479
1057.	20-1	AMPHI	495-498
1058.	20-1	Antigenic Index	26-28
1059.	20-1	Antigenic Index	49-51
1060.	20-1	Antigenic Index	54-56
1061.	20-1	Antigenic Index	70-83
1062.	20-1	Antigenic Index	114-117
1063.	20-1	Antigenic Index	119-126
1064.	20-1	Antigenic Index	180-186
1065.	20-1	Antigenic Index	217-226
1066.	20-1	Antigenic Index	228-231
1067.	20-1	Antigenic Index	258-261
1068.	20-1	Antigenic Index	268-276
1069.	20-1	Antigenic Index	291-302
1070.	20-1	Antigenic Index	376-384
1071.	20-1	Antigenic Index	430-440
1072.	20-1	Antigenic Index	474-480
1073.	20-1	Antigenic Index	502-512
1074.	20-1	Hydrophilicity	49-51
1075.	20-1	Hydrophilicity	54-56
1076.	20-1	Hydrophilicity	70-83
1077.	20-1	Hydrophilicity	119-126
1078.	20-1	Hydrophilicity	217-226
1079.	20-1	Hydrophilicity	228-231
1080.	20-1	Hydrophilicity	270-273
1081.	20-1	Hydrophilicity	292-302

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1082.	20-1	Hydrophilicity	378-380
1083.	20-1	Hydrophilicity	382-384
1084.	20-1	Hydrophilicity	474-480
1085.	20-1	Hydrophilicity	502-512
1086.	22-1	AMPHI	47-52
1087.	22-1	AMPHI	76-79
1088.	22-1	AMPHI	103-113
1089.	22-1	AMPHI	117-120
1090.	22-1	АМРНІ	128-130
1091.	22-1	АМРНІ	136-141
1092.	22-1	АМРНІ	169-176
1093.	22-1	АМРНІ	182-184
1094.	22-1	AMPHI	190-194
1095.	22-1	АМРНІ	213-215
1096.	22-1	AMPHI	226-230
1097.	22-1	АМРНІ	243-252
1098.	22-1	АМРНІ	269-271
1099.	22-1	AMPHI	273-279
1100.	22-1	АМРНІ	284-287
1101.	22-1	АМРНІ	291-294
1102.	22-1	AMPHI	304-308
1103.	22-1	АМРНІ	311-327
1104.	22-1	АМРНІ	336-338
1105.	22-1	AMPHI	353-356
1106.	22-1	АМРНІ	361-363
1107.	22-1	AMPHI	369-372
1108.	22-1	AMPHI	380-383
1109.	22-1	АМРНІ	389-391
1110.	22-1	AMPHI	409-411
1111.	22-1	Antigenic Index	2-8
1112.	22-1	Antigenic Index	12-25
1113.	22-1	Antigenic Index	35-38
1114.	22-1	Antigenic Index	40-65
1115.	22-1	Antigenic Index	72-75
1116.	22-1	Antigenic Index	80-87
1117.	22-1	Antigenic Index	95-107
1118.	22-1	Antigenic Index	113-123
1119.	22-1	Antigenic Index	131-138
1120.	22-1	Antigenic Index	140-146
1121.	22-1	Antigenic Index	154-163
1122.	22-1	Antigenic Index	165-167
1123.	22-1	Antigenic Index	169-177
1124.	22-1	Antigenic Index	183-191
1125.	22-1	Antigenic Index	195-206
		1	1 120 200

1126.   22-1				
1128.         22-1         Antigenic Index         230-236           1129.         22-1         Antigenic Index         253-263           1130.         22-1         Antigenic Index         266-276           1131.         22-1         Antigenic Index         291-301           1132.         22-1         Antigenic Index         312-322           1133.         22-1         Antigenic Index         341-349           1134.         22-1         Antigenic Index         341-349           1135.         22-1         Antigenic Index         347-349           1136.         22-1         Antigenic Index         379-385           1137.         22-1         Antigenic Index         399-407           1138.         22-1         Antigenic Index         413-420           1139.         22-1         Antigenic Index         414-3420           1140.         22-1         Antigenic Index         438-447           1141.         22-1         Hydrophilicity         2-8           1142.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         14-20           1144.         22-1         Hydrophilicity         72-7	1126.	22-1	Antigenic Index	208-214
1129.   22-1	1127.	22-1	Antigenic Index	216-222
1130.   22-1	1128.	22-1	Antigenic Index	230-236
1131.   22-1	1129.	22-1	Antigenic Index	253-263
1132.         22-1         Antigenic Index         312-322           1133.         22-1         Antigenic Index         326-334           1134.         22-1         Antigenic Index         341-349           1135.         22-1         Antigenic Index         366-375           1136.         22-1         Antigenic Index         379-385           1137.         22-1         Antigenic Index         499-407           1138.         22-1         Antigenic Index         413-420           1139.         22-1         Antigenic Index         426-436           1140.         22-1         Antigenic Index         426-436           1141.         22-1         Hydrophilicity         2-8           1141.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         40-64           1144.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         114-123           1147.         22-1         Hydrophilicity         114-123	1130.	22-1	Antigenic Index	266-276
1133.   22-1	1131.	22-1	Antigenic Index	291-301
1134.         22-1         Antigenic Index         341-349           1135.         22-1         Antigenic Index         366-375           1136.         22-1         Antigenic Index         379-385           1137.         22-1         Antigenic Index         399-407           1138.         22-1         Antigenic Index         413-420           1139.         22-1         Antigenic Index         426-436           1140.         22-1         Antigenic Index         438-447           1141.         22-1         Hydrophilicity         2-8           1142.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         72-74           1146.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         114-123           1149.         22-1         Hydrophilicity         114-123           1150.         22-1         Hydrophilicity         158-160           1152.         22-1         Hydrophilicity         165-167	1132.	22-1	Antigenic Index	312-322
1135.   22-1	1133.	22-1	Antigenic Index	326-334
1136.         22-1         Antigenic Index         379-385           1137.         22-1         Antigenic Index         399-407           1138.         22-1         Antigenic Index         413-420           1139.         22-1         Antigenic Index         426-436           1140.         22-1         Hydrophilicity         2-8           1141.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         72-74           1146.         22-1         Hydrophilicity         80-87           1147.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         114-123           1149.         22-1         Hydrophilicity         114-123           1149.         22-1         Hydrophilicity         132-137           1150.         22-1         Hydrophilicity         165-167           1151.         22-1         Hydrophilicity         165-167           1153.         22-1         Hydrophilicity         169-176 <td>1134</td> <td>22-1</td> <td>Antigenic Index</td> <td>341-349</td>	1134	22-1	Antigenic Index	341-349
1137.         22-1         Antigenic Index         399-407           1138.         22-1         Antigenic Index         413-420           1139.         22-1         Antigenic Index         426-436           1140.         22-1         Antigenic Index         438-447           1141.         22-1         Hydrophilicity         2-8           1142.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         72-74           1146.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         114-123           1149.         22-1         Hydrophilicity         132-137           1150.         22-1         Hydrophilicity         140-146           1151.         22-1         Hydrophilicity         158-160           1152.         22-1         Hydrophilicity         165-167           1153.         22-1         Hydrophilicity         183-191 <td>1135.</td> <td>22-1</td> <td>Antigenic Index</td> <td>366-375</td>	1135.	22-1	Antigenic Index	366-375
1138.         22-1         Antigenic Index         413-420           1139.         22-1         Antigenic Index         426-436           1140.         22-1         Antigenic Index         438-447           1141.         22-1         Hydrophilicity         2-8           1142.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         72-74           1146.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         114-123           1147.         22-1         Hydrophilicity         114-123           1149.         22-1         Hydrophilicity         132-137           1150.         22-1         Hydrophilicity         140-146           1151.         22-1         Hydrophilicity         158-160           1152.         22-1         Hydrophilicity         165-167           1153.         22-1         Hydrophilicity         169-176           1154.         22-1         Hydrophilicity         195-206 <td>1136.</td> <td>22-1</td> <td>Antigenic Index</td> <td>379-385</td>	1136.	22-1	Antigenic Index	379-385
1139.         22-1         Antigenic Index         426-436           1140.         22-1         Antigenic Index         438-447           1141.         22-1         Hydrophilicity         2-8           1142.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         72-74           1146.         22-1         Hydrophilicity         80-87           1147.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         114-123           1149.         22-1         Hydrophilicity         132-137           1150.         22-1         Hydrophilicity         140-146           1151.         22-1         Hydrophilicity         158-160           1152.         22-1         Hydrophilicity         165-167           1153.         22-1         Hydrophilicity         169-176           1154.         22-1         Hydrophilicity         195-206           1155.         22-1         Hydrophilicity         208-211	1137.	22-1	Antigenic Index	399-407
1140.         22-1         Antigenic Index         438-447           1141.         22-1         Hydrophilicity         2-8           1142.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         72-74           1146.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         95-107           1148.         22-1         Hydrophilicity         114-123           1149.         22-1         Hydrophilicity         132-137           1150.         22-1         Hydrophilicity         140-146           1151.         22-1         Hydrophilicity         158-160           1152.         22-1         Hydrophilicity         165-167           1153.         22-1         Hydrophilicity         183-191           1154.         22-1         Hydrophilicity         183-191           1155.         22-1         Hydrophilicity         208-211           1157.         22-1         Hydrophilicity         208-211	1138.	22-1	Antigenic Index	413-420
1141.         22-1         Hydrophilicity         14-20           1142.         22-1         Hydrophilicity         14-20           1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         72-74           1146.         22-1         Hydrophilicity         80-87           1147.         22-1         Hydrophilicity         114-123           1148.         22-1         Hydrophilicity         132-137           1149.         22-1         Hydrophilicity         140-146           1150.         22-1         Hydrophilicity         158-160           1151.         22-1         Hydrophilicity         165-167           1153.         22-1         Hydrophilicity         169-176           1154.         22-1         Hydrophilicity         183-191           1155.         22-1         Hydrophilicity         195-206           1156.         22-1         Hydrophilicity         208-211           1157.         22-1         Hydrophilicity         269-276           1158.         22-1         Hydrophilicity         326-334	1139.	22-1	Antigenic Index	426-436
1142.       22-1       Hydrophilicity       14-20         1143.       22-1       Hydrophilicity       35-38         1144.       22-1       Hydrophilicity       40-64         1145.       22-1       Hydrophilicity       72-74         1146.       22-1       Hydrophilicity       80-87         1147.       22-1       Hydrophilicity       114-123         1148.       22-1       Hydrophilicity       132-137         1150.       22-1       Hydrophilicity       140-146         1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       369-375	1140.	22-1	Antigenic Index	438-447
1143.         22-1         Hydrophilicity         35-38           1144.         22-1         Hydrophilicity         40-64           1145.         22-1         Hydrophilicity         72-74           1146.         22-1         Hydrophilicity         80-87           1147.         22-1         Hydrophilicity         114-123           1148.         22-1         Hydrophilicity         132-137           1150.         22-1         Hydrophilicity         140-146           1151.         22-1         Hydrophilicity         158-160           1152.         22-1         Hydrophilicity         165-167           1153.         22-1         Hydrophilicity         169-176           1154.         22-1         Hydrophilicity         183-191           1155.         22-1         Hydrophilicity         195-206           1156.         22-1         Hydrophilicity         208-211           1157.         22-1         Hydrophilicity         256-263           1158.         22-1         Hydrophilicity         269-276           1159.         22-1         Hydrophilicity         39-30           1160.         22-1         Hydrophilicity         39-33	1141.	22-1	Hydrophilicity	2-8
1143.       22-1       Hydrophilicity       35-38         1144.       22-1       Hydrophilicity       40-64         1145.       22-1       Hydrophilicity       72-74         1146.       22-1       Hydrophilicity       80-87         1147.       22-1       Hydrophilicity       114-123         1148.       22-1       Hydrophilicity       132-137         1150.       22-1       Hydrophilicity       140-146         1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375	1142.	22-1	Hydrophilicity	14-20
1145.       22-1       Hydrophilicity       72-74         1146.       22-1       Hydrophilicity       80-87         1147.       22-1       Hydrophilicity       95-107         1148.       22-1       Hydrophilicity       114-123         1149.       22-1       Hydrophilicity       132-137         1150.       22-1       Hydrophilicity       140-146         1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       399-407      <	1143.	22-1	Hydrophilicity	35-38
1145.       22-1       Hydrophilicity       72-74         1146.       22-1       Hydrophilicity       80-87         1147.       22-1       Hydrophilicity       95-107         1148.       22-1       Hydrophilicity       114-123         1149.       22-1       Hydrophilicity       132-137         1150.       22-1       Hydrophilicity       140-146         1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       399-407      <	1144.	22-1	Hydrophilicity	40-64
1147.       22-1       Hydrophilicity       95-107         1148.       22-1       Hydrophilicity       114-123         1149.       22-1       Hydrophilicity       132-137         1150.       22-1       Hydrophilicity       140-146         1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431	1145.	22-1	Hydrophilicity	72-74
1148.       22-1       Hydrophilicity       114-123         1149.       22-1       Hydrophilicity       132-137         1150.       22-1       Hydrophilicity       140-146         1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       195-206         1155.       22-1       Hydrophilicity       208-211         1156.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       399-407         1164.       22-1       Hydrophilicity       413-420         1165.       22-1       Hydrophilicity       428-431         1166.       22-1       Hydrophilicity       434-436	1146.	22-1	Hydrophilicity	80-87
1149.       22-1       Hydrophilicity       132-137         1150.       22-1       Hydrophilicity       140-146         1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       195-206         1155.       22-1       Hydrophilicity       208-211         1156.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       291-300         1160.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436	1147.	22-1 .	Hydrophilicity	95-107
1150.       22-1       Hydrophilicity       140-146         1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1148.	22-1	Hydrophilicity	114-123
1151.       22-1       Hydrophilicity       158-160         1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1149.	22-1	Hydrophilicity	132-137
1152.       22-1       Hydrophilicity       165-167         1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1150.	22-1	Hydrophilicity	140-146
1153.       22-1       Hydrophilicity       169-176         1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-330         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1151.	22-1	Hydrophilicity	158-160
1154.       22-1       Hydrophilicity       183-191         1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       326-334         1160.       22-1       Hydrophilicity       342-348         1161.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1152.	22-1	Hydrophilicity	165-167
1155.       22-1       Hydrophilicity       195-206         1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       291-300         1160.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1153.	22-1	Hydrophilicity	169-176
1156.       22-1       Hydrophilicity       208-211         1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       291-300         1160.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1154.	22-1	Hydrophilicity	183-191
1157.       22-1       Hydrophilicity       256-263         1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       291-300         1160.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1155.	22-1	Hydrophilicity	195-206
1158.       22-1       Hydrophilicity       269-276         1159.       22-1       Hydrophilicity       291-300         1160.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1156.	22-1	Hydrophilicity	208-211
1159.       22-1       Hydrophilicity       291-300         1160.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1157.	22-1	Hydrophilicity	256-263
1160.       22-1       Hydrophilicity       326-334         1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1158.	22-1	Hydrophilicity	269-276
1161.       22-1       Hydrophilicity       342-348         1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1159.	22-1	Hydrophilicity	291-300
1162.       22-1       Hydrophilicity       369-375         1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1160.	22-1	Hydrophilicity	326-334
1163.       22-1       Hydrophilicity       380-383         1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1161.	22-1	Hydrophilicity	342-348
1164.       22-1       Hydrophilicity       399-407         1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1162.	22-1	Hydrophilicity	369-375
1165.       22-1       Hydrophilicity       413-420         1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1163.	22-1		380-383
1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1164.	22-1	Hydrophilicity	399-407
1166.       22-1       Hydrophilicity       428-431         1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1165.	22-1	Hydrophilicity	413-420
1167.       22-1       Hydrophilicity       434-436         1168.       22-1       Hydrophilicity       438-447	1166.	22-1		428-431
	1167.	22-1		434-436
1169. 23-1 AMPHI 12-15	1168.	22-1	Hydrophilicity	438-447
	1169.	23-1	AMPHI	12-15

1170.   23-1   AMPHI   31-35   1171.   23-1   AMPHI   82-84   1172.   23-1   AMPHI   82-84   1173.   23-1   AMPHI   89-93   1174.   23-1   AMPHI   120-124   1175.   23-1   AMPHI   129-131   1176.   23-1   AMPHI   135-137   1177.   23-1   AMPHI   139-141   139-141   1178.   23-1   AMPHI   139-141   1178.   23-1   AMPHI   1203-205   1180.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   239-264   1183.   23-1   AMPHI   239-264   1184.   23-1   AMPHI   239-264   1184.   23-1   AMPHI   289-294   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   300-305   1188.   23-1   AMPHI   300-305   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   349-352   1199.   23-1   AMPHI   349-352   1199.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   401-406				· · · · · · · · · · · · · · · · · · ·
1172.   23-1   AMPHI   82-84   1173.   23-1   AMPHI   89-93   1174.   23-1   AMPHI   120-124   1175.   23-1   AMPHI   129-131   1176.   23-1   AMPHI   135-137   1177.   23-1   AMPHI   139-141   1178.   23-1   AMPHI   139-141   1178.   23-1   AMPHI   120-205   1180.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   238-240   1183.   23-1   AMPHI   239-264   1184.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   300-305   1188.   23-1   AMPHI   300-305   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   349-352   1190.   23-1   AMPHI   390-395   1191.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   408-411   1194.   23-1   AMPHI   408-411   1195.   23-1   AMPHI   408-411   1196.   23-1   AMPHI   408-411   415-427   1194.   23-1   AMPHI   408-410   408-400   1198.   23-1   AMPHI   408-400   1199.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   415-427   1199.   23-1   AMPHI   415-427   1199.   23-1   AMPHI   415-427   1199.   23-1   AMPHI   415-457   1199.   23-1   AMPHI   415-458   1199.   23-1   AMPHI   415-458   1199.   23-1   AMPHI   415-458   1199.   23-1   AMPHI   415-458   1199.   23-1   AMPHI   415-459   1199.   23-1	1170.	23-1	AMPHI	31-35
1173.   23-1   AMPHI   120-124   1174.   23-1   AMPHI   120-124   1175.   23-1   AMPHI   129-131   1176.   23-1   AMPHI   135-137   1177.   23-1   AMPHI   135-137   1177.   23-1   AMPHI   139-141   148-165   1179.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   238-240   1183.   23-1   AMPHI   238-240   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   239-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   349-352   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   349-352   1190.   23-1   AMPHI   392-395   1191.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   415-427   1195.   23-1   AMPHI   444-446   1196.   23-1   AMPHI   444-446   1196.   23-1   AMPHI   415-427   1197.   23-1   AMPHI   415-427   1198.   23-1   AMPHI   415-427   1199.   23-1   AMPHI   415-427   1199.   23-1   AMPHI   415-427   1199.   23-1   AMPHI   415-427   1199.   23-1   AMPHI   456-500   1198.   23-1   AMPHI   456-500   1198.   23-1   AMPHI   456-501   1200.   23-1   AMPHI   564-571   1200.   23-1   AMPHI   564-571   1200.   23-1   AMPHI   564-657   1203.   23-1   AMPHI   674-679   1205.   23-1   AMPHI   694-697   1205.   23-1   AMPHI   694-697   1205.   23-1   AMPHI   694-697   1206.   23-1   AMPHI   694-697   1207.   23-1   AMPHI   694-697   1209.   23-1   AMPHI	1171.	23-1	АМРНІ	68-78
1174.   23-1   AMPHI   120-124   1175.   23-1   AMPHI   129-131   1176.   23-1   AMPHI   135-137   1177.   23-1   AMPHI   139-141   1178.   23-1   AMPHI   148-165   1179.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   224-226   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   259-264   1185.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   332-336   1187.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   380-386   1190.   23-1   AMPHI   392-395   1191.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   408-411   1194.   23-1   AMPHI   434-437   1194.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   435-457   1197.   23-1   AMPHI   435-457   1197.   23-1   AMPHI   455-457   1199.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1199.   23-1   AMPHI   496-500   1199.   23-1   AMPHI   496-500   1199.   23-1   AMPHI   564-571   1200.   23-1   AMPHI   564-571   1201.   23-1   AMPHI   564-571   1202.   23-1   AMPHI   564-657   1203.   23-1   AMPHI   699-601   1204.   23-1   AMPHI   699-601   1205.   23-1   AMPHI   699-601   1206.   23-1   AMPHI   699-601   1207.   23-1   AMPHI   699-601   1208.   23-1   AMPHI   699-601   1209.   23-1   AMPHI   699-601   1209.   23-1   AMPHI   694-697   1206.   23-1   AMPHI   694-697   1207.   23-1   AMPHI   694-697   1208.   23-1   AMPHI   694-697   1209.   23-1   AMPHI   694-697   1209.   23-1   AMPHI   694-697   1209.   23-1   AMPHI   694-697   1209.   23-1   AMPHI   694-697	1172.	23-1	AMPHI	82-84
1175.   23-1   AMPHI   129-131   1176.   23-1   AMPHI   135-137   1177.   23-1   AMPHI   139-141   1178.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   259-264   1182.   23-1   AMPHI   259-264   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   259-264   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   349-352   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   392-395   1190.   23-1   AMPHI   392-395   1191.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   455-457   1197.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   564-571   1200.   23-1   AMPHI   564-571   1200.   23-1   AMPHI   564-657   1203.   23-1   AMPHI   629-631   1202.   23-1   AMPHI   629-631   1202.   23-1   AMPHI   609-701   1207.   23-1   AMPHI   699-701   1208.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   699-701   1208.   23-1   AmIgenic Index   42-53   1210.   23-1   Antigenic Index   42-53   1210.   23-1   Antigenic Index   42-53   1210.   23-1   Antigenic Index   42-53   1211.   23-1   Antigenic In	1173.	23-1	AMPHI	89-93
1176.   23-1   AMPHI   135-137   1177.   23-1   AMPHI   139-141   1178.   23-1   AMPHI   148-165   1179.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   259-264   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   392-395   1190.   23-1   AMPHI   392-395   1191.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   444-446   1196.   23-1   AMPHI   444-446   1196.   23-1   AMPHI   415-457   1197.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   415-418   1199.   23-1   AMPHI   415-427   1190.   23-1   AMPHI   415-427	1174.	23-1	АМРНІ	120-124
1177.   23-1   AMPHI   139-141   1178.   23-1   AMPHI   148-165   1179.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   238-240   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   349-352   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   392-395   1190.   23-1   AMPHI   392-395   1191.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   435-457   1197.   23-1   AMPHI   444-446   1196.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1199.   23-1   AMPHI   416-601   1199.   1199.   1199.   1199.   1199.   1199.   1199.   1199.	1175.	23-1	AMPHI	129-131
1178.   23-1   AMPHI   148-165   1179.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   238-240   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   392-395   1190.   23-1   AMPHI   392-395   1191.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   408-411   1195.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   434-437   1196.   23-1   AMPHI   444-446   1196.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   514-518   1190.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   514-518   1200.   23-1   AMPHI   514-518   1200.   23-1   AMPHI   514-518   1200.   23-1   AMPHI   514-518   1200.   23-1   AMPHI   699-601   1201.   23-1   AMPHI   699-601   1204.   23-1   AMPHI   699-601   1204.   23-1   AMPHI   699-701   1205.   23-1   AMPHI   699-701   1206.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   699-701   1208.   23-1   AMPHI   699-701   1209.   23-1   AMPHI   699-701	1176.	23-1	АМРНІ	135-137
1179.   23-1   AMPHI   203-205   1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   238-240   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   392-395   1190.   23-1   AMPHI   392-395   1191.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   408-411   1194.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   434-436   1196.   23-1   AMPHI   454-457   1197.   23-1   AMPHI   455-457   1197.   23-1   AMPHI   456-500   1198.   23-1   AMPHI   456-500   1198.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   564-657   1200.   23-1   AMPHI   629-631   1202.   23-1   AMPHI   654-657   1203.   23-1   AMPHI   654-657   1204.   23-1   AMPHI   654-657   1205.   23-1   AMPHI   654-657   1205.   23-1   AMPHI   654-657   1205.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   711-718   1208.   23-1   Antigenic Index   42-53   1210.   23-1   Antigenic Index   42-53   1211.   23-1   Anti	1177.	23-1	АМРНІ	139-141
1180.   23-1   AMPHI   217-220   1181.   23-1   AMPHI   224-226   1182.   23-1   AMPHI   238-240   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   332-336   1188.   23-1   AMPHI   349-352   1189.   23-1   AMPHI   392-395   1190.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   408-411   1193.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   436-407   1197.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   514-518   1200.   23-1   AMPHI   564-657   1200.   23-1   AMPHI   617-621   1201.   23-1   AMPHI   617-621   1202.   23-1   AMPHI   617-621   1203.   23-1   AMPHI   617-621   1204.   23-1   AMPHI   617-621   1205.   23-1   AMPHI   674-679   1205.   23-1   AMPHI   694-697   1206.   23-1   AMPHI   694-697   1206.   23-1   AMPHI   694-697   1207.   23-1   AMPHI   694-697   1208.   23-1   AMPHI   694-697   1209.   23-1   AMPHI   694-697   1206.   23-1   AMPHI   694-697   1207.   23-1   AMPHI   694-697   1208.   23-1   AMPHI   694-697   1208.   23-1   AMPHI   694-697   1209.   23-1   AMPHI   694-697	1178.	23-1	AMPHI	148-165
1181.         23-1         AMPHI         224-226           1182.         23-1         AMPHI         238-240           1183.         23-1         AMPHI         259-264           1184.         23-1         AMPHI         278-281           1185.         23-1         AMPHI         389-294           1186.         23-1         AMPHI         300-305           1187.         23-1         AMPHI         349-352           1188.         23-1         AMPHI         349-352           1189.         23-1         AMPHI         392-395           1190.         23-1         AMPHI         401-406           1191.         23-1         AMPHI         401-406           1192.         23-1         AMPHI         408-411           1193.         23-1         AMPHI         415-427           1194.         23-1         AMPHI         415-427           1194.         23-1         AMPHI         444-446           1195.         23-1         AMPHI         444-446           1196.         23-1         AMPHI         496-500           1198.         23-1         AMPHI         514-518           1199. </td <td>1179</td> <td>23-1</td> <td>АМРНІ</td> <td>203-205</td>	1179	23-1	АМРНІ	203-205
1182.   23-1   AMPHI   238-240   1183.   23-1   AMPHI   259-264   1184.   23-1   AMPHI   278-281   1185.   23-1   AMPHI   289-294   1186.   23-1   AMPHI   300-305   1187.   23-1   AMPHI   349-352   1188.   23-1   AMPHI   380-386   1190.   23-1   AMPHI   392-395   1191.   23-1   AMPHI   401-406   1192.   23-1   AMPHI   415-427   1194.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   434-437   1195.   23-1   AMPHI   444-446   1196.   23-1   AMPHI   455-457   1197.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   496-500   1198.   23-1   AMPHI   514-518   1199.   23-1   AMPHI   564-571   1200.   23-1   AMPHI   564-571   1201.   23-1   AMPHI   629-631   1202.   23-1   AMPHI   629-631   1202.   23-1   AMPHI   629-631   1202.   23-1   AMPHI   663-666   1204.   23-1   AMPHI   674-679   1205.   23-1   AMPHI   694-697   1205.   23-1   AMPHI   694-697   1206.   23-1   AMPHI   694-697   1207.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   617-612   1208.   23-1   AMPHI   617-619   1209.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   699-701   1207.   23-1   AMPHI   617-618   1208.   23-1   AMPHI   617-619   1209.   23-1   AMPHI   617-619   1209.   23-1   AMPHI   617-619   1209.   23-1   AMPHI   617-679   1209.   23-1   AMPHI   617-679	1180	23-1	AMPHI	217-220
1183.         23-1         AMPHI         259-264           1184.         23-1         AMPHI         278-281           1185.         23-1         AMPHI         289-294           1186.         23-1         AMPHI         300-305           1187.         23-1         AMPHI         332-336           1188.         23-1         AMPHI         349-352           1189.         23-1         AMPHI         349-352           1189.         23-1         AMPHI         392-395           1191.         23-1         AMPHI         401-406           1192.         23-1         AMPHI         401-406           1193.         23-1         AMPHI         408-411           1193.         23-1         AMPHI         415-427           1194.         23-1         AMPHI         434-437           1195.         23-1         AMPHI         444-446           1196.         23-1         AMPHI         455-457           1197.         23-1         AMPHI         496-500           1198.         23-1         AMPHI         514-518           1199.         23-1         AMPHI         564-571           1200. </td <td>1181.</td> <td>23-1</td> <td>АМРНІ</td> <td>224-226</td>	1181.	23-1	АМРНІ	224-226
1184.   23-1	1182.	23-1	АМРНІ	238-240
1185.         23-1         AMPHI         289-294           1186.         23-1         AMPHI         300-305           1187.         23-1         AMPHI         332-336           1188.         23-1         AMPHI         349-352           1189.         23-1         AMPHI         392-395           1190.         23-1         AMPHI         401-406           1192.         23-1         AMPHI         408-411           1193.         23-1         AMPHI         415-427           1194.         23-1         AMPHI         434-437           1195.         23-1         AMPHI         434-437           1195.         23-1         AMPHI         444-446           1196.         23-1         AMPHI         455-457           1197.         23-1         AMPHI         496-500           1198.         23-1         AMPHI         514-518           1199.         23-1         AMPHI         564-571           1200.         23-1         AMPHI         617-621           1201.         23-1         AMPHI         654-657           1202.         23-1         AMPHI         663-666           1204. </td <td>1183</td> <td>23-1</td> <td>АМРНІ</td> <td>259-264</td>	1183	23-1	АМРНІ	259-264
1186.         23-1         AMPHI         300-305           1187.         23-1         AMPHI         332-336           1188.         23-1         AMPHI         349-352           1189.         23-1         AMPHI         380-386           1190.         23-1         AMPHI         392-395           1191.         23-1         AMPHI         401-406           1192.         23-1         AMPHI         408-411           1193.         23-1         AMPHI         415-427           1194.         23-1         AMPHI         434-437           1195.         23-1         AMPHI         434-437           1196.         23-1         AMPHI         455-457           1197.         23-1         AMPHI         496-500           1198.         23-1         AMPHI         514-518           1199.         23-1         AMPHI         564-571           1200.         23-1         AMPHI         617-621           1201.         23-1         AMPHI         629-631           1202.         23-1         AMPHI         654-657           1203.         23-1         AMPHI         674-679           1204. </td <td>1184.</td> <td>23-1</td> <td>AMPHI</td> <td>278-281</td>	1184.	23-1	AMPHI	278-281
1187.       23-1       AMPHI       332-336         1188.       23-1       AMPHI       349-352         1189.       23-1       AMPHI       380-386         1190.       23-1       AMPHI       392-395         1191.       23-1       AMPHI       401-406         1192.       23-1       AMPHI       408-411         1193.       23-1       AMPHI       415-427         1194.       23-1       AMPHI       434-437         1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       496-500         1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       653-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       694-697         1205.       23-1       AMPHI       694-697         1206.       23-1 <t< td=""><td>1185</td><td>23-1</td><td>AMPHI</td><td>289-294</td></t<>	1185	23-1	AMPHI	289-294
1188.       23-1       AMPHI       349-352         1189.       23-1       AMPHI       380-386         1190.       23-1       AMPHI       392-395         1191.       23-1       AMPHI       401-406         1192.       23-1       AMPHI       408-411         1193.       23-1       AMPHI       415-427         1194.       23-1       AMPHI       434-437         1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       496-500         1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       694-697         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       711-718         1208.       23-1 <t< td=""><td>1186.</td><td>23-1</td><td>АМРНІ</td><td>300-305</td></t<>	1186.	23-1	АМРНІ	300-305
1189.       23-1       AMPHI       380-386         1190.       23-1       AMPHI       392-395         1191.       23-1       AMPHI       401-406         1192.       23-1       AMPHI       408-411         1193.       23-1       AMPHI       415-427         1194.       23-1       AMPHI       434-437         1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       496-500         1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       674-679         1204.       23-1       AMPHI       694-697         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       42-53         1209.       23-1	1187	23-1	AMPHI	332-336
1190.       23-1       AMPHI       392-395         1191.       23-1       AMPHI       401-406         1192.       23-1       AMPHI       408-411         1193.       23-1       AMPHI       415-427         1194.       23-1       AMPHI       434-437         1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       496-500         1197.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       711-718         1207.       23-1       ANHHI       711-718         1208.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       42-53         1211.       23	1188.	23-1	АМРНІ	349-352
1190.       23-1       AMPHI       392-395         1191.       23-1       AMPHI       401-406         1192.       23-1       AMPHI       408-411         1193.       23-1       AMPHI       415-427         1194.       23-1       AMPHI       434-437         1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       496-500         1197.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       699-701         1206.       23-1       AMPHI       711-718         1208.       23-1       ANPHI       711-718         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       42-53         1211.       23	1189.	23-1	АМРНІ	380-386
1192.       23-1       AMPHI       408-411         1193.       23-1       AMPHI       415-427         1194.       23-1       AMPHI       434-437         1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       455-457         1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       667-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1212.	1190.	23-1	АМРНІ	392-395
1193.       23-1       AMPHI       415-427         1194.       23-1       AMPHI       434-437         1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       455-457         1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       667-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1211.       23-1       Antigenic Index       99-114	1191.	23-1	AMPHI	401-406
1194.       23-1       AMPHI       434-437         1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       455-457         1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       42-53         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1192.	23-1	АМРНІ	408-411
1195.       23-1       AMPHI       444-446         1196.       23-1       AMPHI       455-457         1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       699-701         1206.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1211.       23-1       Antigenic Index       99-114	1193.	23-1	АМРНІ	415-427
1196.       23-1       AMPHI       455-457         1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1211.       23-1       Antigenic Index       99-114	1194.	23-1	АМРНІ	434-437
1197.       23-1       AMPHI       496-500         1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       694-697         1205.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1211.       23-1       Antigenic Index       99-114	1195.	23-1	АМРНІ	444-446
1198.       23-1       AMPHI       514-518         1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       699-701         1206.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1211.       23-1       Antigenic Index       99-114	1196.	23-1	АМРНІ	455-457
1199.       23-1       AMPHI       564-571         1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1211.       23-1       Antigenic Index       99-114	1197.	23-1	АМРНІ	496-500
1200.       23-1       AMPHI       617-621         1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       711-718         1207.       23-1       ANTIGENIC INDEX       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1198.	23-1	АМРНІ	514-518
1201.       23-1       AMPHI       629-631         1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       711-718         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1211.       23-1       Antigenic Index       99-114	1199.	23-1	AMPHI	564-571
1202.       23-1       AMPHI       654-657         1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       81-92         1211.       23-1       Antigenic Index       99-114	1200.	23-1	АМРНІ	617-621
1203.       23-1       AMPHI       663-666         1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1201.	23-1	АМРНІ	629-631
1204.       23-1       AMPHI       674-679         1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1202.	23-1	AMPHI	654-657
1205.       23-1       AMPHI       694-697         1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1203.	23-1	AMPHI	663-666
1206.       23-1       AMPHI       699-701         1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1204.	23-1	AMPHI	674-679
1207.       23-1       AMPHI       711-718         1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1205.	23-1	AMPHI	694-697
1208.       23-1       Antigenic Index       22-35         1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1206.	23-1	AMPHI	699-701
1209.       23-1       Antigenic Index       42-53         1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1207.	23-1	AMPHI	711-718
1210.       23-1       Antigenic Index       67-73         1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1208.	23-1	Antigenic Index	22-35
1211.       23-1       Antigenic Index       81-92         1212.       23-1       Antigenic Index       99-114	1209.	23-1	Antigenic Index	42-53
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	1211.	23-1	Antigenic Index	81-92
1213.   23-1   Antigenic Index   118-124	1212.	23-1	Antigenic Index	99-114
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1228.	23-1	Antigenic Index	354-361
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1234.	23-1	Antigenic Index	441-446
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1240.	23-1	Antigenic Index	531-534
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1243.	23-1	Antigenic Index	555-564
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1266.   23-1				
1267.   23-1	1266.			
1268.   23-1				
1269.   23-1				
1270.         23-1         Hydrophilicity         249-251           1271.         23-1         Hydrophilicity         258-266           1272.         23-1         Hydrophilicity         283-288           1273.         23-1         Hydrophilicity         306-310           1274.         23-1         Hydrophilicity         314-329           1275.         23-1         Hydrophilicity         356-361           1277.         23-1         Hydrophilicity         372-379           1278.         23-1         Hydrophilicity         392-398           1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         449-434           1281.         23-1         Hydrophilicity         455-469           1282.         23-1         Hydrophilicity         455-469           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551 <td></td> <td></td> <td></td> <td></td>				
1271.         23-1         Hydrophilicity         258-266           1272.         23-1         Hydrophilicity         283-288           1273.         23-1         Hydrophilicity         306-310           1274.         23-1         Hydrophilicity         314-329           1275.         23-1         Hydrophilicity         356-361           1277.         23-1         Hydrophilicity         372-379           1278.         23-1         Hydrophilicity         392-398           1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         449-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         455-469           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         536-539           1285.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         569-572 <td></td> <td></td> <td></td> <td></td>				
1272.         23-1         Hydrophilicity         283-288           1273.         23-1         Hydrophilicity         295-299           1274.         23-1         Hydrophilicity         306-310           1275.         23-1         Hydrophilicity         314-329           1276.         23-1         Hydrophilicity         356-361           1277.         23-1         Hydrophilicity         392-398           1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         455-469           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         580-582 <td></td> <td></td> <td></td> <td></td>				
1273.         23-1         Hydrophilicity         295-299           1274.         23-1         Hydrophilicity         306-310           1275.         23-1         Hydrophilicity         314-329           1276.         23-1         Hydrophilicity         356-361           1277.         23-1         Hydrophilicity         392-398           1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         455-469           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         580-582           1290.         23-1         Hydrophilicity         580-582 <td></td> <td></td> <td></td> <td></td>				
1274.         23-1         Hydrophilicity         306-310           1275.         23-1         Hydrophilicity         314-329           1276.         23-1         Hydrophilicity         356-361           1277.         23-1         Hydrophilicity         372-379           1278.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         455-469           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         580-582           1291.         23-1         Hydrophilicity         584-586 <td>_</td> <td></td> <td></td> <td></td>	_			
1275.         23-1         Hydrophilicity         314-329           1276.         23-1         Hydrophilicity         356-361           1277.         23-1         Hydrophilicity         372-379           1278.         23-1         Hydrophilicity         392-398           1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         507-514           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         580-582           1291.         23-1         Hydrophilicity         584-586           1292.         23-1         Hydrophilicity         595-617 <td></td> <td></td> <td></td> <td></td>				
1276.         23-1         Hydrophilicity         356-361           1277.         23-1         Hydrophilicity         372-379           1278.         23-1         Hydrophilicity         392-398           1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         507-514           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         580-582           1290.         23-1         Hydrophilicity         584-586           1292.         23-1         Hydrophilicity         584-586           1293.         23-1         Hydrophilicity         641-643 <td></td> <td></td> <td></td> <td></td>				
1277.         23-1         Hydrophilicity         372-379           1278.         23-1         Hydrophilicity         392-398           1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         507-514           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         569-572           1290.         23-1         Hydrophilicity         580-582           1291.         23-1         Hydrophilicity         595-617           1293.         23-1         Hydrophilicity         641-643           1294.         23-1         Hydrophilicity         656-671 <td></td> <td></td> <td></td> <td></td>				
1278.         23-1         Hydrophilicity         392-398           1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         507-514           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         580-582           1290.         23-1         Hydrophilicity         580-582           1291.         23-1         Hydrophilicity         595-617           1293.         23-1         Hydrophilicity         595-617           1293.         23-1         Hydrophilicity         641-643           1294.         23-1         Hydrophilicity         656-671 <td></td> <td></td> <td></td> <td></td>				
1279.         23-1         Hydrophilicity         408-411           1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         455-469           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         580-582           1290.         23-1         Hydrophilicity         580-582           1291.         23-1         Hydrophilicity         584-586           1292.         23-1         Hydrophilicity         595-617           1293.         23-1         Hydrophilicity         641-643           1294.         23-1         Hydrophilicity         656-671           1296.         23-1         Hydrophilicity         682-689 <td></td> <td></td> <td></td> <td></td>				
1280.         23-1         Hydrophilicity         429-434           1281.         23-1         Hydrophilicity         441-446           1282.         23-1         Hydrophilicity         455-469           1283.         23-1         Hydrophilicity         507-514           1284.         23-1         Hydrophilicity         526-529           1285.         23-1         Hydrophilicity         531-534           1286.         23-1         Hydrophilicity         536-539           1287.         23-1         Hydrophilicity         544-551           1288.         23-1         Hydrophilicity         555-561           1289.         23-1         Hydrophilicity         580-582           1290.         23-1         Hydrophilicity         584-586           1291.         23-1         Hydrophilicity         595-617           1293.         23-1         Hydrophilicity         641-643           1294.         23-1         Hydrophilicity         645-648           1295.         23-1         Hydrophilicity         682-689           1297.         23-1         Hydrophilicity         700-709           1298.         24-1         AMPHI         47-57 <td></td> <td></td> <td></td> <td></td>				
1281.       23-1       Hydrophilicity       441-446         1282.       23-1       Hydrophilicity       455-469         1283.       23-1       Hydrophilicity       507-514         1284.       23-1       Hydrophilicity       526-529         1285.       23-1       Hydrophilicity       531-534         1286.       23-1       Hydrophilicity       536-539         1287.       23-1       Hydrophilicity       544-551         1288.       23-1       Hydrophilicity       555-561         1289.       23-1       Hydrophilicity       580-582         1291.       23-1       Hydrophilicity       580-582         1292.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1282.       23-1       Hydrophilicity       455-469         1283.       23-1       Hydrophilicity       507-514         1284.       23-1       Hydrophilicity       526-529         1285.       23-1       Hydrophilicity       531-534         1286.       23-1       Hydrophilicity       536-539         1287.       23-1       Hydrophilicity       544-551         1288.       23-1       Hydrophilicity       555-561         1289.       23-1       Hydrophilicity       569-572         1290.       23-1       Hydrophilicity       580-582         1291.       23-1       Hydrophilicity       584-586         1292.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       682-689         1296.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1283.       23-1       Hydrophilicity       507-514         1284.       23-1       Hydrophilicity       526-529         1285.       23-1       Hydrophilicity       531-534         1286.       23-1       Hydrophilicity       536-539         1287.       23-1       Hydrophilicity       544-551         1288.       23-1       Hydrophilicity       555-561         1289.       23-1       Hydrophilicity       580-582         1290.       23-1       Hydrophilicity       584-586         1291.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
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1285.       23-1       Hydrophilicity       531-534         1286.       23-1       Hydrophilicity       536-539         1287.       23-1       Hydrophilicity       544-551         1288.       23-1       Hydrophilicity       555-561         1289.       23-1       Hydrophilicity       569-572         1290.       23-1       Hydrophilicity       580-582         1291.       23-1       Hydrophilicity       584-586         1292.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1286.       23-1       Hydrophilicity       536-539         1287.       23-1       Hydrophilicity       544-551         1288.       23-1       Hydrophilicity       555-561         1289.       23-1       Hydrophilicity       569-572         1290.       23-1       Hydrophilicity       580-582         1291.       23-1       Hydrophilicity       584-586         1292.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       656-671         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1287.       23-1       Hydrophilicity       544-551         1288.       23-1       Hydrophilicity       555-561         1289.       23-1       Hydrophilicity       569-572         1290.       23-1       Hydrophilicity       580-582         1291.       23-1       Hydrophilicity       584-586         1292.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       656-671         1295.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
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1289.       23-1       Hydrophilicity       569-572         1290.       23-1       Hydrophilicity       580-582         1291.       23-1       Hydrophilicity       584-586         1292.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
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1291.       23-1       Hydrophilicity       584-586         1292.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1292.       23-1       Hydrophilicity       595-617         1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1293.       23-1       Hydrophilicity       641-643         1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1294.       23-1       Hydrophilicity       645-648         1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1295.       23-1       Hydrophilicity       656-671         1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1296.       23-1       Hydrophilicity       682-689         1297.       23-1       Hydrophilicity       700-709         1298.       24-1       AMPHI       37-40         1299.       24-1       AMPHI       47-57				
1297.     23-1     Hydrophilicity     700-709       1298.     24-1     AMPHI     37-40       1299.     24-1     AMPHI     47-57				
1298.     24-1     AMPHI     37-40       1299.     24-1     AMPHI     47-57				
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1301. 24-1 AMPHI 76-87				

1302.   24-1   AMPHI   90-95   1303.   24-1   AMPHI   106-110   1304.   24-1   AMPHI   133-141   133-141   1305.   24-1   AMPHI   143-150   1306.   24-1   AMPHI   171-174   1307.   24-1   AMPHI   178-180   1308.   24-1   AMPHI   203-206   1309.   24-1   AMPHI   235-239   1310.   24-1   AMPHI   253-239   1311.   24-1   AMPHI   253-258   1312.   24-1   AMPHI   296-305   1314.   24-1   AMPHI   296-305   1314.   24-1   AMPHI   296-305   1314.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   53-57   1316.   24-1   Antigenic Index   63-70   1317.   24-1   Antigenic Index   63-70   1317.   24-1   Antigenic Index   63-70   1318.   24-1   Antigenic Index   93-96   1319.   24-1   Antigenic Index   93-96   1320.   24-1   Antigenic Index   105-135   1320.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   178-187   1323.   24-1   Antigenic Index   178-187   1324.   24-1   Antigenic Index   178-187   1324.   24-1   Antigenic Index   178-187   1325.   24-1   Antigenic Index   178-187   1326.   24-1   Antigenic Index   178-187   1325.   24-1   Antigenic Index   178-187   1326.   24-1   Antigenic Index   178-187   1327.   24-1   Antigenic Index   178-187   1328.   24-1   Antigenic Index   279-292   1327.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-41   1339.   24-1   Hydrophilicity   37-41   1339.   24-1   Hydrophilicity   37-41   1339.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-41   1339.   24-1   Hydrophilicity   37-41   1				· · · · · · · · · · · · · · · · · · ·
1304.   24-1   AMPHI   133-141   1305.   24-1   AMPHI   143-150   1306.   24-1   AMPHI   171-174   1307.   24-1   AMPHI   178-180   1308.   24-1   AMPHI   203-206   1309.   24-1   AMPHI   235-239   1310.   24-1   AMPHI   235-239   1311.   24-1   AMPHI   253-258   1312.   24-1   AMPHI   264-269   1313.   24-1   AMPHI   296-305   1314.   24-1   AMPHI   296-305   1314.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   63-70   1317.   24-1   Antigenic Index   72-79   1318.   24-1   Antigenic Index   93-96   1319.   24-1   Antigenic Index   105-135   1320.   24-1   Antigenic Index   141-153   1320.   24-1   Antigenic Index   141-153   1321.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   178-187   1323.   24-1   Antigenic Index   178-187   1324.   24-1   Antigenic Index   178-187   1325.   24-1   Antigenic Index   179-201   1324.   24-1   Antigenic Index   179-201   1324.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   279-292   1327.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-46   1330.   24-1   Hydrophilicity   37-47   1331.   24-1   Hydrophilicity   312-185   1334.   24-1   Hydrophilicity   312-199	1302.	24-1	АМРНІ	90-95
1305.   24-1   AMPHI   143-150   1306.   24-1   AMPHI   171-174   1307.   24-1   AMPHI   178-180   1308.   24-1   AMPHI   203-206   1309.   24-1   AMPHI   223-227   1310.   24-1   AMPHI   253-239   1311.   24-1   AMPHI   253-258   1312.   24-1   AMPHI   296-305   1314.   24-1   AMPHI   296-305   1314.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   63-70   1318.   24-1   Antigenic Index   72-79   1318.   24-1   Antigenic Index   93-96   1319.   24-1   Antigenic Index   105-135   1320.   24-1   Antigenic Index   141-153   1321.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   178-187   1323.   24-1   Antigenic Index   178-187   1324.   24-1   Antigenic Index   178-187   1325.   24-1   Antigenic Index   178-187   1326.   24-1   Antigenic Index   178-187   1327.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   279-292   1327.   24-1   Antigenic Index   279-292   1327.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-46   1330.   24-1   Hydrophilicity   14-16   1331.   24-1   Hydrophilicity   125-132   1332.   24-1   Hydrophilicity   125-132   1333.   24-1   Hydrophilicity   141-149   1334.   24-1   Hydrophi	1303.	24-1	АМРНІ	106-110
1306.   24-1   AMPHI   171-174   1307.   24-1   AMPHI   178-180   1308.   24-1   AMPHI   203-206   1309.   24-1   AMPHI   235-239   1310.   24-1   AMPHI   253-258   1312.   24-1   AMPHI   264-269   1313.   24-1   AMPHI   296-305   1314.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   53-57   1316.   24-1   Antigenic Index   53-57   1317.   24-1   Antigenic Index   63-70   1317.   24-1   Antigenic Index   72-79   1318.   24-1   Antigenic Index   93-96   1319.   24-1   Antigenic Index   93-96   1319.   24-1   Antigenic Index   105-135   1320.   24-1   Antigenic Index   141-153   1321.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   178-187   1323.   24-1   Antigenic Index   178-187   1324.   24-1   Antigenic Index   193-201   1324.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   279-292   1327.   24-1   Antigenic Index   279-292   1327.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-41   1329.   24-1   Hydrophilicity   37-476   1330.   24-1   Hydrophilicity   110-121   1331.   24-1   Hydrophilicity   110-121   1331.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1334.   24-1   Hydrophilicity   141-149   1434.   24	1304.	24-1	АМРНІ	133-141
1307.   24-1   AMPHI   178-180   1308.   24-1   AMPHI   203-206   1309.   24-1   AMPHI   223-227   1310.   24-1   AMPHI   235-239   1311.   24-1   AMPHI   253-258   1312.   24-1   AMPHI   264-269   1313.   24-1   AMPHI   296-305   1314.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   53-57   1316.   24-1   Antigenic Index   63-70   1317.   24-1   Antigenic Index   72-79   1318.   24-1   Antigenic Index   93-96   1319.   24-1   Antigenic Index   105-135   1320.   24-1   Antigenic Index   105-135   1320.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   178-187   1323.   24-1   Antigenic Index   193-201   1324.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   264-277   1326.   24-1   Antigenic Index   279-292   1327.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-41   1331.   24-1   Hydrophilicity   110-121   1331.   24-1   Hydrophilicity   110-121   1331.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1334.   2	1305.	24-1	АМРНІ	143-150
1308.   24-1   AMPHI   203-206   1309.   24-1   AMPHI   223-227   1310.   24-1   AMPHI   235-239   1311.   24-1   AMPHI   253-258   1312.   24-1   AMPHI   264-269   1313.   24-1   AMPHI   296-305   1314.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   33-57   1316.   24-1   Antigenic Index   63-70   1317.   24-1   Antigenic Index   72-79   1318.   24-1   Antigenic Index   93-96   1319.   24-1   Antigenic Index   105-135   1320.   24-1   Antigenic Index   141-153   1321.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   193-201   1324.   24-1   Antigenic Index   193-201   1324.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   226-277   1326.   24-1   Antigenic Index   279-292   1327.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-46   1330.   24-1   Hydrophilicity   110-121   1331.   24-1   Hydrophilicity   125-132   1332.   24-1   Hydrophilicity   125-132   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1334.   24-1   Hydrophilicity   193-199	1306.	24-1	АМРНІ	171-174
1309.   24-1   AMPHI   223-227   1310.   24-1   AMPHI   235-239   1311.   24-1   AMPHI   253-258   1312.   24-1   AMPHI   264-269   1313.   24-1   AMPHI   296-305   1314.   24-1   Antigenic Index   34-42   1315.   24-1   Antigenic Index   53-57   1316.   24-1   Antigenic Index   63-70   1317.   24-1   Antigenic Index   93-96   1319.   24-1   Antigenic Index   105-135   1320.   24-1   Antigenic Index   105-135   1321.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   172-175   1322.   24-1   Antigenic Index   178-187   1323.   24-1   Antigenic Index   193-201   1324.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   218-223   1325.   24-1   Antigenic Index   218-23   1327.   24-1   Antigenic Index   279-292   1327.   24-1   Hydrophilicity   37-41   1328.   24-1   Hydrophilicity   37-46   1330.   24-1   Hydrophilicity   110-121   1331.   24-1   Hydrophilicity   125-132   1332.   24-1   Hydrophilicity   125-132   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   141-149   1333.   24-1   Hydrophilicity   193-199	1307.	24-1	AMPHI	178-180
1310.         24-1         AMPHI         235-239           1311.         24-1         AMPHI         253-258           1312.         24-1         AMPHI         264-269           1313.         24-1         AMPHI         296-305           1314.         24-1         Antigenic Index         34-42           1315.         24-1         Antigenic Index         53-57           1316.         24-1         Antigenic Index         63-70           1317.         24-1         Antigenic Index         72-79           1318.         24-1         Antigenic Index         105-135           1320.         24-1         Antigenic Index         141-153           1321.         24-1         Antigenic Index         172-175           1322.         24-1         Antigenic Index         178-187           1323.         24-1         Antigenic Index         193-201           1324.         24-1         Antigenic Index         218-223           1325.         24-1         Antigenic Index         264-277           1326.         24-1         Antigenic Index         279-292           1327.         24-1         Hydrophilicity         37-41	1308.	24-1	АМРНІ	203-206
1311.         24-1         AMPHI         253-258           1312.         24-1         AMPHI         264-269           1313.         24-1         AMPHI         296-305           1314.         24-1         Antigenic Index         34-42           1315.         24-1         Antigenic Index         53-57           1316.         24-1         Antigenic Index         63-70           1317.         24-1         Antigenic Index         72-79           1318.         24-1         Antigenic Index         105-135           1320.         24-1         Antigenic Index         141-153           1321.         24-1         Antigenic Index         172-175           1322.         24-1         Antigenic Index         178-187           1323.         24-1         Antigenic Index         193-201           1324.         24-1         Antigenic Index         218-223           1325.         24-1         Antigenic Index         264-277           1326.         24-1         Antigenic Index         279-292           1327.         24-1         Hydrophilicity         37-41           1328.         24-1         Hydrophilicity         74-76	1309.	24-1	АМРНІ	223-227
1312.         24-1         AMPHI         264-269           1313.         24-1         AMPHI         296-305           1314.         24-1         Antigenic Index         34-42           1315.         24-1         Antigenic Index         53-57           1316.         24-1         Antigenic Index         63-70           1317.         24-1         Antigenic Index         72-79           1318.         24-1         Antigenic Index         105-135           1320.         24-1         Antigenic Index         141-153           1321.         24-1         Antigenic Index         172-175           1322.         24-1         Antigenic Index         178-187           1323.         24-1         Antigenic Index         193-201           1324.         24-1         Antigenic Index         218-223           1325.         24-1         Antigenic Index         264-277           1326.         24-1         Antigenic Index         279-292           1327.         24-1         Hydrophilicity         37-41           1328.         24-1         Hydrophilicity         74-76           1330.         24-1         Hydrophilicity         10-121 <t< td=""><td>1310.</td><td>24-1</td><td>АМРНІ</td><td>235-239</td></t<>	1310.	24-1	АМРНІ	235-239
1313.         24-1         AMPHI         296-305           1314.         24-1         Antigenic Index         34-42           1315.         24-1         Antigenic Index         53-57           1316.         24-1         Antigenic Index         63-70           1317.         24-1         Antigenic Index         72-79           1318.         24-1         Antigenic Index         93-96           1319.         24-1         Antigenic Index         105-135           1320.         24-1         Antigenic Index         141-153           1321.         24-1         Antigenic Index         172-175           1322.         24-1         Antigenic Index         178-187           1323.         24-1         Antigenic Index         193-201           1324.         24-1         Antigenic Index         218-223           1325.         24-1         Antigenic Index         264-277           1326.         24-1         Antigenic Index         279-292           1327.         24-1         Hydrophilicity         37-41           1328.         24-1         Hydrophilicity         74-76           1330.         24-1         Hydrophilicity         125-132 <td>1311.</td> <td>24-1</td> <td>АМРНІ</td> <td>253-258</td>	1311.	24-1	АМРНІ	253-258
1314.         24-1         Antigenic Index         34-42           1315.         24-1         Antigenic Index         53-57           1316.         24-1         Antigenic Index         63-70           1317.         24-1         Antigenic Index         72-79           1318.         24-1         Antigenic Index         93-96           1319.         24-1         Antigenic Index         105-135           1320.         24-1         Antigenic Index         172-175           1321.         24-1         Antigenic Index         178-187           1322.         24-1         Antigenic Index         193-201           1323.         24-1         Antigenic Index         218-223           1324.         24-1         Antigenic Index         264-277           1326.         24-1         Antigenic Index         279-292           1327.         24-1         Hydrophilicity         37-41           1328.         24-1         Hydrophilicity         74-76           1330.         24-1         Hydrophilicity         110-121           1331.         24-1         Hydrophilicity         125-132           1332.         24-1         Hydrophilicity         141-149	1312.	24-1	АМРНІ	264-269
1315.         24-1         Antigenic Index         53-57           1316.         24-1         Antigenic Index         63-70           1317.         24-1         Antigenic Index         72-79           1318.         24-1         Antigenic Index         93-96           1319.         24-1         Antigenic Index         105-135           1320.         24-1         Antigenic Index         141-153           1321.         24-1         Antigenic Index         172-175           1322.         24-1         Antigenic Index         193-201           1323.         24-1         Antigenic Index         218-223           1324.         24-1         Antigenic Index         264-277           1326.         24-1         Antigenic Index         264-277           1326.         24-1         Hydrophilicity         37-41           1328.         24-1         Hydrophilicity         44-70           1329.         24-1         Hydrophilicity         110-121           1331.         24-1         Hydrophilicity         125-132           1332.         24-1         Hydrophilicity         141-149           1333.         24-1         Hydrophilicity         141-149 <td>1313.</td> <td>24-1</td> <td>АМРНІ</td> <td>296-305</td>	1313.	24-1	АМРНІ	296-305
1316.       24-1       Antigenic Index       63-70         1317.       24-1       Antigenic Index       72-79         1318.       24-1       Antigenic Index       93-96         1319.       24-1       Antigenic Index       105-135         1320.       24-1       Antigenic Index       141-153         1321.       24-1       Antigenic Index       172-175         1322.       24-1       Antigenic Index       193-201         1323.       24-1       Antigenic Index       218-223         1324.       24-1       Antigenic Index       264-277         1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       193-199	1314.	24-1	Antigenic Index	34-42
1317.         24-1         Antigenic Index         72-79           1318.         24-1         Antigenic Index         93-96           1319.         24-1         Antigenic Index         105-135           1320.         24-1         Antigenic Index         141-153           1321.         24-1         Antigenic Index         178-187           1322.         24-1         Antigenic Index         193-201           1323.         24-1         Antigenic Index         218-223           1324.         24-1         Antigenic Index         264-277           1326.         24-1         Antigenic Index         279-292           1327.         24-1         Hydrophilicity         37-41           1328.         24-1         Hydrophilicity         64-70           1329.         24-1         Hydrophilicity         110-121           1331.         24-1         Hydrophilicity         125-132           1332.         24-1         Hydrophilicity         141-149           1333.         24-1         Hydrophilicity         182-185           1334.         24-1         Hydrophilicity         193-199	1315.	24-1	Antigenic Index	53-57
1318.       24-1       Antigenic Index       93-96         1319.       24-1       Antigenic Index       105-135         1320.       24-1       Antigenic Index       141-153         1321.       24-1       Antigenic Index       172-175         1322.       24-1       Antigenic Index       193-201         1323.       24-1       Antigenic Index       218-223         1324.       24-1       Antigenic Index       264-277         1325.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1316.	24-1	Antigenic Index	63-70
1318.       24-1       Antigenic Index       93-96         1319.       24-1       Antigenic Index       105-135         1320.       24-1       Antigenic Index       141-153         1321.       24-1       Antigenic Index       172-175         1322.       24-1       Antigenic Index       178-187         1323.       24-1       Antigenic Index       193-201         1324.       24-1       Antigenic Index       218-223         1325.       24-1       Antigenic Index       264-277         1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1317.	24-1	Antigenic Index	72-79
1320.       24-1       Antigenic Index       141-153         1321.       24-1       Antigenic Index       172-175         1322.       24-1       Antigenic Index       178-187         1323.       24-1       Antigenic Index       193-201         1324.       24-1       Antigenic Index       218-223         1325.       24-1       Antigenic Index       264-277         1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1318.	24-1	Antigenic Index	93-96
1321.       24-1       Antigenic Index       172-175         1322.       24-1       Antigenic Index       178-187         1323.       24-1       Antigenic Index       193-201         1324.       24-1       Antigenic Index       218-223         1325.       24-1       Antigenic Index       264-277         1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1319.	24-1	Antigenic Index	105-135
1322.       24-1       Antigenic Index       178-187         1323.       24-1       Antigenic Index       193-201         1324.       24-1       Antigenic Index       218-223         1325.       24-1       Antigenic Index       264-277         1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1320.	24-1	Antigenic Index	141-153
1323.       24-1       Antigenic Index       193-201         1324.       24-1       Antigenic Index       218-223         1325.       24-1       Antigenic Index       264-277         1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1321.	24-1	Antigenic Index	172-175
1324.       24-1       Antigenic Index       218-223         1325.       24-1       Antigenic Index       264-277         1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1322.	24-1	Antigenic Index	178-187
1325.       24-1       Antigenic Index       264-277         1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1323.	24-1	Antigenic Index	193-201
1326.       24-1       Antigenic Index       279-292         1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1324.	24-1	Antigenic Index	218-223
1327.       24-1       Hydrophilicity       37-41         1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1325.	24-1	Antigenic Index	264-277
1328.       24-1       Hydrophilicity       64-70         1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1326.	24-1	Antigenic Index	279-292
1329.       24-1       Hydrophilicity       74-76         1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1327.	24-1	Hydrophilicity	37-41
1330.       24-1       Hydrophilicity       110-121         1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1328.	24-1	Hydrophilicity	64-70
1331.       24-1       Hydrophilicity       125-132         1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1329.	24-1	Hydrophilicity	74-76
1332.       24-1       Hydrophilicity       141-149         1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1330.	24-1	Hydrophilicity	110-121
1333.       24-1       Hydrophilicity       182-185         1334.       24-1       Hydrophilicity       193-199	1331.	24-1	Hydrophilicity	125-132
1334. 24-1 Hydrophilicity 193-199	1332.	24-1	Hydrophilicity	141-149
	1333.	24-1	Hydrophilicity	182-185
1335. 24-1 Hydrophilicity 219-223	1334.	24-1	Hydrophilicity	193-199
	1335.	24-1	Hydrophilicity	219-223
1336. 24-1 Hydrophilicity 265-277	1336.	24-1	Hydrophilicity	265-277
1337. 24-1 Hydrophilicity 282-292	1337.	24-1	Hydrophilicity	282-292
1338. 25-1 AMPHI 22-27	1338.	25-1	AMPHI	22-27
1339. 25-1 AMPHI 34-36	1339.	25-1	АМРНІ	34-36
1340. 25-1 AMPHI 42-44	1340.	25-1	AMPHI	42-44
1341. 25-1 AMPHI 50-52	1341.	25-1	АМРНІ	50-52
1342. 25-1 AMPHI 79-87	1342.	25-1	AMPHI	79-87
1343. 25-1 AMPHI 102-105	1343.	25-1	AMPHI	102-105
1344. 25-1 AMPHI 120-123	1344.	25-1	AMPHI	120-123
1345. 25-1 AMPHI 165-169	1345.	25-1	AMPHI	165-169

1346.	25-1	AMPHI	193-195
1347.	25-1	АМРНІ	226-232
1348.	25-1	AMPHI	242-244
1349.	25-1	AMPHI	270-276
1350.	25-1	AMPHI	296-300
1351.	25-1	АМРНІ	313-316
1352.	25-1	Antigenic Index	17-30
1353.	25-1	Antigenic Index	37-67
1354.	25-1	Antigenic Index	79-89
1355.	25-1	Antigenic Index	99-111
1356.	25-1	Antigenic Index	118-120
1357.	25-1	Antigenic Index	122-138
1358.	25-1	Antigenic Index	146-154
1359.	25-1	Antigenic Index	182-194
1360.	25-1	Antigenic Index	196-215
1361.	25-1	Antigenic Index	218-225
1362.	25-1	Antigenic Index	227-248
1363.	25-1	Antigenic Index	250-270
1364.	25-1	Antigenic Index	274-312
1365.	25-1	Antigenic Index	319-331
1366.	25-1	Hydrophilicity	17-27
1367.	25-1	Hydrophilicity	45-67
1368.	25-1	Hydrophilicity	79-88
1369.	25-1	Hydrophilicity	103-110
1370.	25-1	Hydrophilicity	122-130
1371.	25-1	Hydrophilicity	132-136
1372.	25-1	Hydrophilicity	147-152
1373.	25-1	Hydrophilicity	183-194
1374.	25-1	Hydrophilicity	196-215
1375.	25-1	Hydrophilicity	218-225
1376.	25-1	Hydrophilicity	227-248
1377.	25-1	Hydrophilicity	252-270
1378.	25-1	Hydrophilicity	277-312
1379.	25-1	Hydrophilicity	319-331
1380.	26-1	АМРНІ	10-18
1381.	26-1	АМРНІ	48-58
1382.	26-1	АМРНІ	85-90
1383.	26-1	АМРНІ	100-103
1384.	26-1	АМРНІ	117-119
1385.	26-1	АМРНІ	124-133
1386.	26-1	АМРНІ	138-145
1387.	26-1	AMPHI	155-157
1388.	26-1	АМРНІ	171-173
1389.	26-1	АМРНІ	179-186

1390.	26-1	АМРНІ	191-201
1391.	26-1	АМРНІ	205-217
1392.	26-1	АМРНІ	220-222
1393.	26-1	АМРНІ	229-230
1394.	26-1	АМРНІ	238-243
1395.	26-1	АМРНІ	249-251
1396.	26-1	АМРНІ	263-266
1397.	26-1	AMPHI	268-272
1398.	26-1	АМРНІ	285-292
1399.	26-1	AMPHI	306-309
1400.	26-1	АМРНІ	317-325
1401.	26-1	АМРНІ	335-338
1402.	26-1	АМРНІ	349-354
1403.	26-1	АМРНІ	360-363
1404.	26-1	AMPHI	382-385
1405.	26-1	АМРНІ	393-395
1406.	26-1	AMPHI	418-421
1407.	26-1	АМРНІ	429-434
1408.	26-1	АМРНІ	448-455
1409.	26-1	Antigenic Index	45-52
1410.	26-1	Antigenic Index	54-57
1411.	26-1	Antigenic Index	66-76
1412.	26-1	Antigenic Index	94-99
1413.	26-1	Antigenic Index	103-115
1414.	26-1	Antigenic Index	129-131
1415.	26-1	Antigenic Index	142-153
1416.	26-1	Antigenic Index	160-162
1417.	26-1	Antigenic Index	172-175
1418.	26-1	Antigenic Index	190-193
1419.	26-1	Antigenic Index	195-197
1420.	26-1	Antigenic Index	226-229
1421.	26-1	Antigenic Index	231-235
1422.	26-1	Antigenic Index	240-254
1423.	26-1	Antigenic Index	279-282
1424.	26-1	Antigenic Index	290-298
1425.	26-1	Antigenic Index	318-325
1426.	26-1	Antigenic Index	330-335
1427.	26-1	Antigenic Index	352-359
1428.	26-1	Antigenic Index	369-371
1429.	26-1	Antigenic Index	389-394
1430.	26-1	Antigenic Index	407-411
1431.	26-1	Antigenic Index	428-436
1432.	26-1	Antigenic Index	441-449
1433.	26-1	Antigenic Index	498-506

1434.	26-1	Hydrophilicity	54-57
1435.	26-1	Hydrophilicity	69-76
1436.	26-1	Hydrophilicity	103-115
1437.	26-1	Hydrophilicity	142-153
1438.	26-1	Hydrophilicity	231-235
1439.	26-1	Hydrophilicity	240-254
1440.	26-1	Hydrophilicity	291-295
1441.	26-1	Hydrophilicity	319-324
1442.	26-1	Hydrophilicity	407-411
1443.	26-1	Hydrophilicity	430-435
1444.	26-1	Hydrophilicity	443-446
1445.	26-1	Hydrophilicity	498-506
1446.	27-1	AMPHI	4-6
1447.	27-1	AMPHI	23-25
1448.	27-1	AMPHI	38-40
1449.	27-1	AMPHI	45-48
1450.	27-1	AMPHI	51-58
1451.	27-1	AMPHI	65-69
1452.	27-1	AMPHI	80-86
1453.	27-1	AMPHI	103-107
1454.	27-1	AMPHI	116-118
1455.	27-1	AMPHI	132-136
1456.	27-1	AMPHI	141-148
1457.	27-1	AMPHI	161-166
1458.	27-1	AMPHI	184-188
1459.	27-1	AMPHI	196-198
1460.	27-1	AMPHI	217-219
1461.	27-1	Antigenic Index	1-5
1462.	27-1	Antigenic Index	30-35
1463.	27-1	Antigenic Index	63-70
1464.	27-1	Antigenic Index	86-88
1465.	27-1	Antigenic Index	96-114
1466.	27-1	Antigenic Index	117-126
1467.	27-1	Antigenic Index	130-162
1468.	27-1_	Antigenic Index	167-174
1469.	27-1	Antigenic Index	178-185
1470.	27-1	Antigenic Index	188-197
1471.	27-1	Antigenic Index	199-209
1472.	27-1	Antigenic Index	213-242
1473.	27-1	Hydrophilicity	1-5
1474.	27-1	Hydrophilicity	33-35
1475.	27-1	Hydrophilicity	64-69
1476.	27-1	Hydrophilicity	98-103
1477.	27-1	Hydrophilicity	106-114
			100-117

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1478.	27-1	Hydrophilicity	121-126
1479.	27-1	Hydrophilicity	133-136
1480.	27-1	Hydrophilicity	144-159
1481.	27-1	Hydrophilicity	170-174
1482.	27-1	Hydrophilicity	178-185
1483.	27-1	Hydrophilicity	190-197
1484.	27-1	Hydrophilicity	199-201
1485.	27-1	Hydrophilicity	203-206
1486.	27-1	Hydrophilicity	213-232
1487.	27-1	Hydrophilicity	234-242
1488.	28-1	AMPHI	18-20
1489.	28-1	АМРНІ	29-35
1490.	28-1	АМРНІ	38-40
1491.	28-1	АМРНІ	45-50
1492.	28-1	АМРНІ	78-80
1493.	28-1	АМРНІ	83-85
1494.	28-1	АМРНІ	88-97
1495.	28-1	АМРНІ	102-105
1496.	28-1	АМРНІ	133-142
1497.	28-1	АМРНІ	157-160
1498.	28-1	АМРНІ	171-173
1499.	28-1	АМРНІ	195-198
1500.	28-1	АМРНІ	203-207
1501.	28-1	АМРНІ	222-224
1502.	28-1	АМРНІ	228-232
1503.	28-1	Antigenic Index	5-7
1504.	28-1	Antigenic Index	26-31
1505.	28-1	Antigenic Index	34-46
1506.	28-1	Antigenic Index	51-62
1507.	28-1	Antigenic Index	74-81
1508.	28-1	Antigenic Index	88-105
1509.	28-1	Antigenic Index	111-145
1510.	28-1	Antigenic Index	149-157
1511.	28-1	Antigenic Index	161-180
1512.	28-1	Antigenic Index	183-188
1513.	28-1	Antigenic Index	193-202
1514.	28-1	Antigenic Index	234-238
1515.	28-1	Hydrophilicity	5-7
1516.	28-1	Hydrophilicity	34-46
1517.	28-1	Hydrophilicity	51-62
1517.	28-1	Hydrophilicity	75-81
1519.	28-1	Hydrophilicity	88-102
1520.	28-1	Hydrophilicity	111-117
1520.	28-1	Hydrophilicity	130-145
1341.	1 40-1	1 11ydrophinicity	130-173

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1522.	28-1	Hydrophilicity	149-153
1523.	28-1	Hydrophilicity	155-157
1524.	28-1	Hydrophilicity	161-167
1525.	28-1	Hydrophilicity	172-176
1526.	28-1	Hydrophilicity	178-180
1527.	28-1	Hydrophilicity	193-202
1528.	28-1	Hydrophilicity	234-238
1529.	29-1	АМРНІ	6-8
1530.	29-1	АМРНІ	17-19
1531.	29-1	АМРНІ	41-43
1532.	29-1	АМРНІ	64-68
1533.	29-1	AMPHI	86-89
1534.	29-1	AMPHI	104-109
1535.	29-1	AMPHI	114-116
1536.	29-1	АМРНІ	119-121
1537.	29-1	AMPHI	130-136
1538.	29-1	АМРНІ	142-150
1539.	29-1	АМРНІ	161-165
1540.	29-1	АМРНІ	185-187
1541.	29-1	AMPHI	202-206
1542.		АМРНІ	222-229
1543.	29-1	АМРНІ	232-235
1544.	29-1	AMPHI	247-249
1545.	29-1	АМРНІ	255-257
1546.	29-1	АМРНІ	259-261
1547.	29-1	AMPHI	266-274
1548.	29-1	АМРНІ	296-307
1549.	29-1	АМРНІ	319-325
1550.	29-1	AMPHI	343-345
1551.	29-1	AMPHI	349-359
1552.	29-1	AMPHI	369-378
1553.	29-1	AMPHI	399-403
1554.	29-1	АМРНІ	440-442
1555.	29-1	AMPHI	456-462
1556.	29-1	AMPHI	467-470
1557.	29-1	Antigenic Index	25-47
1558.	29-1	Antigenic Index	53-63
1559.	29-1	Antigenic Index	80-88
1560.	29-1	Antigenic Index	96-125
1561.	29-1	Antigenic Index	131-160
1562.	29-1	Antigenic Index	166-175
1563.	29-1	Antigenic Index	182-194
1564.	29-1	Antigenic Index	200-206
1565.	29-1	Antigenic Index	210-218
1505.	1 4 3 - 1	Anageme maex	210-210

1566	20.1	Anticonio I., Jan	221 220
1566.	29-1	Antigenic Index	221-229
1567.	29-1	Antigenic Index	260-262
1568.	29-1	Antigenic Index	268-280
1569.	29-1	Antigenic Index	292-305
1570.	29-1	Antigenic Index	307-311
1571.	29-1	Antigenic Index	329-355
1572.	29-1	Antigenic Index	360-394
1573.	29-1	Antigenic Index	396-409
1574.	29-1	Antigenic Index	413-439
1575.	29-1	Antigenic Index	441-473
1576.	29-1	Antigenic Index	476-483
1577.	29-1	Hydrophilicity	29-46
1578.	29-1	Hydrophilicity	54-63
1579.	29-1	Hydrophilicity	80-86
1580.	29-1	Hydrophilicity	100-103
1581.	29-1	Hydrophilicity	108-118
1582.	29-1	Hydrophilicity	133-154
1583.	29-1	Hydrophilicity	156-160
1584.	29-1	Hydrophilicity	169-175
1585.	29-1	Hydrophilicity	186-193
1586.	29-1	Hydrophilicity	200-206
1587.	29-1	Hydrophilicity	212-215
1588.	29-1	Hydrophilicity	222-228
1589.	29-1	Hydrophilicity	271-277
1590.	29-1	Hydrophilicity	292-294
1591.	29-1	Hydrophilicity	296-300
1592.	29-1	Hydrophilicity	303-305
1593.	29-1	Hydrophilicity	329-339
1594.	29-1	Hydrophilicity	347-355
1595.	29-1	Hydrophilicity	360-372
1596.	29-1	Hydrophilicity	377-390
1597.	29-1	Hydrophilicity	400-402
1598.	29-1	Hydrophilicity	414-438
1599.	29-1	Hydrophilicity	443-451
1600.	29-1	Hydrophilicity	454-459
1601.	29-1	Hydrophilicity	462-472
1602.	29-1	Hydrophilicity	479-483
1603.	30-1	AMPHI	15-25
1604.	30-1	AMPHI	40-43
1605.	30-1	AMPHI	64-69
1606.	30-1	AMPHI	72-74
1607.	30-1	AMPHI	80-90
1607.	30-1	AMPHI	96-123
1609.	30-1	AMPHI	126-128

1610.	30-1	AMPHI	137-147
1611.	30-1	AMPHI	149-157
1612.	30-1	Antigenic Index	1-5
1613.	30-1	Antigenic Index	21-29
1614.	30-1	Antigenic Index	35-39
1615.	30-1	Antigenic Index	46-56
1616.	30-1	Antigenic Index	74-76
1617.	30-1	Antigenic Index	81-93
1618.	30-1	Antigenic Index	102-104
1619.	30-1	Antigenic Index	115-127
1620.	30-1	Antigenic Index	129-181
1621.	30-1	Antigenic Index	1-5
1622.	30-1	Antigenic Index	26-29
1623.	30-1	Antigenic Index	35-39
1624.	30-1	Antigenic Index	46-56
1625.	30-1	Antigenic Index	83-92
1626.	30-1	Antigenic Index	115-122
1627.	30-1	Antigenic Index	135-138
1628.	30-1	Antigenic Index	144-158
1629.	30-1	Antigenic Index	161-181
1630.	31-1	АМРНІ	24-31
1631.	31-1	АМРНІ	33-35
1632.	31-1	АМРНІ	115-120
1633.	31-1	AMPHI	140-143
1634.	31-1	АМРНІ	159-175
1635.	31-1	Antigenic Index	1-5
1636.	31-1	Antigenic Index	9-17
1637.	31-1	Antigenic Index	22-37
1638.	31-1	Antigenic Index	48-53
1639.	31-1	Antigenic Index	78-89
1640.	31-1	Antigenic Index	95-98
1641.	31-1	Antigenic Index	106-109
1642.	31-1	Antigenic Index	122-138
1643.	31-1	Antigenic Index	147-157
1644.	31-1	Antigenic Index	162-172
1645.	31-1	Antigenic Index	175-183
1646.	31-1	Antigenic Index	195-197
1647.	31-1	Antigenic Index	200-206
1648.	31-1	Antigenic Index	208-228
1649.	31-1	Antigenic Index	234-244
1650.	31-1	Antigenic Index	251-263
1651.	31-1	Hydrophilicity	10-16
1652.	31-1	Hydrophilicity	22-36
1653.	31-1	Hydrophilicity	78-89

1654.   31-1	•			
1656.         31-1         Hydrophilicity         153-157           1657.         31-1         Hydrophilicity         176-183           1658.         31-1         Hydrophilicity         222-225           1669.         31-1         Hydrophilicity         235-242           1660.         31-1         Hydrophilicity         255-263           1661.         32-1         AMPHI         14-21           1662.         32-1         AMPHI         47-49           1663.         32-1         AMPHI         51-59           1664.         32-1         AMPHI         67-69           1665.         32-1         AMPHI         80-82           1666.         32-1         AMPHI         85-87           1666.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         157-160           1667.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         297-304           1672.         32-1         AMPHI         297-304           1674.         32-1         AMPHI         310-314 </td <td>1654.</td> <td>31-1</td> <td>Hydrophilicity</td> <td>122-124</td>	1654.	31-1	Hydrophilicity	122-124
1657.         31-1         Hydrophilicity         176-183           1658.         31-1         Hydrophilicity         222-225           1659.         31-1         Hydrophilicity         235-242           1660.         31-1         Hydrophilicity         235-263           1661.         32-1         AMPHI         14-21           1662.         32-1         AMPHI         47-49           1663.         32-1         AMPHI         51-59           1664.         32-1         AMPHI         67-69           1665.         32-1         AMPHI         88-82           1666.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         1157-160           1670.         32-1         AMPHI         1157-160           1670.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         215-221           1673.         32-1         AMPHI         215-221           1674.         32-1         AMPHI         310-314	1655.	31-1	Hydrophilicity	131-136
1658.         31-1         Hydrophilicity         222-225           1659.         31-1         Hydrophilicity         235-242           1660.         31-1         Hydrophilicity         255-263           1661.         32-1         AMPHI         14-21           1662.         32-1         AMPHI         47-49           1663.         32-1         AMPHI         51-59           1664.         32-1         AMPHI         80-82           1665.         32-1         AMPHI         85-87           1666.         32-1         AMPHI         85-87           1666.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         215-221           1673.         32-1         AMPHI         310-314           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         316-33	1656.	31-1	Hydrophilicity	153-157
1659.         31-1         Hydrophilicity         235-242           1660.         31-1         Hydrophilicity         255-263           1661.         32-1         AMPHI         14-21           1662.         32-1         AMPHI         47-49           1663.         32-1         AMPHI         51-59           1664.         32-1         AMPHI         80-82           1665.         32-1         AMPHI         85-87           1666.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         190-204           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         215-221           1673.         32-1         AMPHI         215-221           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         310-314           1677.         32-1         AMPHI         316-333           1	1657.	31-1	Hydrophilicity	176-183
1660.         31-1         Hydrophilicity         255-263           1661.         32-1         AMPHI         14-21           1662.         32-1         AMPHI         47-49           1663.         32-1         AMPHI         51-59           1664.         32-1         AMPHI         67-69           1665.         32-1         AMPHI         80-82           1666.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         215-221           1673.         32-1         AMPHI         297-304           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         316-333           1676.         32-1         AMPHI         366-373           1677.         32-1         AMPHI         366-373           1678. <td>1658.</td> <td>31-1</td> <td>Hydrophilicity</td> <td>222-225</td>	1658.	31-1	Hydrophilicity	222-225
1661.         32-1         AMPHI         47-49           1662.         32-1         AMPHI         47-49           1663.         32-1         AMPHI         51-59           1664.         32-1         AMPHI         67-69           1665.         32-1         AMPHI         80-82           1666.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         225-266           1673.         32-1         AMPHI         310-314           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         316-333           1676.         32-1         AMPHI         335-362           1677.         32-1         AMPHI         366-373           1678.	1659.	31-1	Hydrophilicity	235-242
1662.         32-1         AMPHI         47-49           1663.         32-1         AMPHI         51-59           1664.         32-1         AMPHI         67-69           1665.         32-1         AMPHI         80-82           1666.         32-1         AMPHI         85-87           1667.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         297-304           1673.         32-1         AMPHI         310-314           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         316-333           1676.         32-1         AMPHI         335-362           1677.         32-1         AMPHI         36-373           1678.         32-1         Antigenic Index         4-6           1679.	1660.	31-1	Hydrophilicity	255-263
1663.         32-1         AMPHI         51-59           1664.         32-1         AMPHI         67-69           1665.         32-1         AMPHI         80-82           1666.         32-1         AMPHI         85-87           1667.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         225-266           1673.         32-1         AMPHI         297-304           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         316-333           1676.         32-1         AMPHI         316-333           1677.         32-1         AMPHI         366-373           1678.         32-1         Antigenic Index         4-6           1679.         32-1         Antigenic Index         16-22           1680.         32-1         Antigenic Index         31-33	1661.	32-1	АМРНІ	14-21
1664.         32-1         AMPHI         67-69           1665.         32-1         AMPHI         80-82           1666.         32-1         AMPHI         85-87           1667.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         225-266           1673.         32-1         AMPHI         297-304           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         316-333           1676.         32-1         AMPHI         316-333           1677.         32-1         AMPHI         366-373           1678.         32-1         Antigenic Index         4-6           1679.         32-1         Antigenic Index         4-6           1679.         32-1         Antigenic Index         31-33           1681.         32-1         Antigenic Index         42-48 <tr< td=""><td>1662.</td><td>32-1</td><td>AMPHI</td><td>47-49</td></tr<>	1662.	32-1	AMPHI	47-49
1665.         32-1         AMPHI         80-82           1666.         32-1         AMPHI         85-87           1667.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         225-266           1673.         32-1         AMPHI         297-304           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         310-334           1676.         32-1         AMPHI         310-333           1676.         32-1         AMPHI         366-373           1677.         32-1         AMPHI         366-373           1678.         32-1         Antigenic Index         4-6           1679.         32-1         Antigenic Index         4-6           1679.         32-1         Antigenic Index         42-48           1681.         32-1         Antigenic Index         42-48      <	1663.	32-1	АМРНІ	51-59
1666.         32-1         AMPHI         85-87           1667.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         225-266           1673.         32-1         AMPHI         297-304           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         310-314           1676.         32-1         AMPHI         310-333           1676.         32-1         AMPHI         366-373           1677.         32-1         AMPHI         366-373           1678.         32-1         Antigenic Index         4-6           1679.         32-1         Antigenic Index         16-22           1680.         32-1         Antigenic Index         16-22           1681.         32-1         Antigenic Index         42-48           1682.         32-1         Antigenic Index         94-98	1664.	32-1	AMPHI	67-69
1667.         32-1         AMPHI         93-101           1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         255-266           1673.         32-1         AMPHI         297-304           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         316-333           1676.         32-1         AMPHI         335-362           1677.         32-1         AMPHI         366-373           1678.         32-1         Antigenic Index         4-6           1679.         32-1         Antigenic Index         16-22           1680.         32-1         Antigenic Index         14-248           1681.         32-1         Antigenic Index         42-48           1682.         32-1         Antigenic Index         94-98           1683.         32-1         Antigenic Index         103	1665.	32-1	AMPHI	80-82
1668.         32-1         AMPHI         131-134           1669.         32-1         AMPHI         157-160           1670.         32-1         AMPHI         190-204           1671.         32-1         AMPHI         215-221           1672.         32-1         AMPHI         255-266           1673.         32-1         AMPHI         297-304           1674.         32-1         AMPHI         310-314           1675.         32-1         AMPHI         316-333           1676.         32-1         AMPHI         316-333           1676.         32-1         AMPHI         366-373           1677.         32-1         AMPHI         366-373           1678.         32-1         Antigenic Index         4-6           1679.         32-1         Antigenic Index         16-22           1680.         32-1         Antigenic Index         42-48           1681.         32-1         Antigenic Index         42-48           1682.         32-1         Antigenic Index         94-98           1683.         32-1         Antigenic Index         103-109           1686.         32-1         Antigenic Index	1666.	32-1	АМРНІ	85-87
1669.       32-1       AMPHI       157-160         1670.       32-1       AMPHI       190-204         1671.       32-1       AMPHI       215-221         1672.       32-1       AMPHI       255-266         1673.       32-1       AMPHI       310-314         1674.       32-1       AMPHI       316-333         1675.       32-1       AMPHI       316-333         1676.       32-1       AMPHI       366-373         1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       42-48         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       42-48         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       103-109         1685.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       <	1667.	32-1	АМРНІ	93-101
1670.       32-1       AMPHI       190-204         1671.       32-1       AMPHI       215-221         1672.       32-1       AMPHI       255-266         1673.       32-1       AMPHI       297-304         1674.       32-1       AMPHI       310-314         1675.       32-1       AMPHI       316-333         1676.       32-1       AMPHI       35-362         1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       103-109         1685.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       127-236         1690.       32-1       Antigenic Index </td <td>1668.</td> <td>32-1</td> <td>АМРНІ</td> <td>131-134</td>	1668.	32-1	АМРНІ	131-134
1671.       32-1       AMPHI       215-221         1672.       32-1       AMPHI       255-266         1673.       32-1       AMPHI       297-304         1674.       32-1       AMPHI       310-314         1675.       32-1       AMPHI       316-333         1676.       32-1       AMPHI       335-362         1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       143-180         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigeni	1669.	32-1	AMPHI	157-160
1672.       32-1       AMPHI       255-266         1673.       32-1       AMPHI       297-304         1674.       32-1       AMPHI       310-314         1675.       32-1       AMPHI       316-333         1676.       32-1       AMPHI       366-373         1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       143-180         1689.       32-1       Antigenic Index       217-236         1690.       32-1       Antigenic Index       251-257         1691.       32-1 <t< td=""><td>1670.</td><td>32-1</td><td>АМРНІ</td><td>190-204</td></t<>	1670.	32-1	АМРНІ	190-204
1673.       32-1       AMPHI       297-304         1674.       32-1       AMPHI       310-314         1675.       32-1       AMPHI       316-333         1676.       32-1       AMPHI       335-362         1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       103-109         1685.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       217-236         1690.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       278-280         1694.       32-1 </td <td>1671.</td> <td>32-1</td> <td>AMPHI</td> <td>215-221</td>	1671.	32-1	AMPHI	215-221
1674.       32-1       AMPHI       310-314         1675.       32-1       AMPHI       316-333         1676.       32-1       AMPHI       335-362         1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       217-236         1690.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693. <t< td=""><td>1672.</td><td>32-1</td><td>AMPHI</td><td>255-266</td></t<>	1672.	32-1	AMPHI	255-266
1675.       32-1       AMPHI       316-333         1676.       32-1       AMPHI       335-362         1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       278-280         1695. <td>1673.</td> <td>32-1</td> <td>AMPHI</td> <td>297-304</td>	1673.	32-1	AMPHI	297-304
1676.       32-1       AMPHI       335-362         1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       251-257         1691.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296 <td< td=""><td>1674.</td><td>32-1</td><td>АМРНІ</td><td>310-314</td></td<>	1674.	32-1	АМРНІ	310-314
1677.       32-1       AMPHI       366-373         1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       251-257         1691.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336	1675.	32-1	АМРНІ	316-333
1678.       32-1       Antigenic Index       4-6         1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361 <td>1676.</td> <td>32-1</td> <td>AMPHI</td> <td>335-362</td>	1676.	32-1	AMPHI	335-362
1679.       32-1       Antigenic Index       16-22         1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1677.	32-1	AMPHI	366-373
1680.       32-1       Antigenic Index       31-33         1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1678.	32-1	Antigenic Index	4-6
1681.       32-1       Antigenic Index       42-48         1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       187-191         1688.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1679.	32-1	Antigenic Index	16-22
1682.       32-1       Antigenic Index       52-60         1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       143-180         1687.       32-1       Antigenic Index       187-191         1688.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1680.	32-1	Antigenic Index	31-33
1683.       32-1       Antigenic Index       70-82         1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1681.	32-1	Antigenic Index	42-48
1684.       32-1       Antigenic Index       94-98         1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1682.	32-1	Antigenic Index	52-60
1685.       32-1       Antigenic Index       103-109         1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       278-280         1693.       32-1       Antigenic Index       288-296         1694.       32-1       Antigenic Index       305-336         1695.       32-1       Antigenic Index       344-361	1683.	32-1	Antigenic Index	70-82
1686.       32-1       Antigenic Index       116-135         1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       278-280         1693.       32-1       Antigenic Index       288-296         1694.       32-1       Antigenic Index       305-336         1695.       32-1       Antigenic Index       344-361	1684.	32-1	Antigenic Index	94-98
1687.       32-1       Antigenic Index       143-180         1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1685.	32-1	Antigenic Index	103-109
1688.       32-1       Antigenic Index       187-191         1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1686.	32-1	Antigenic Index	116-135
1689.       32-1       Antigenic Index       200-204         1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1687.	32-1	Antigenic Index	143-180
1690.       32-1       Antigenic Index       217-236         1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1688.	32-1	Antigenic Index	187-191
1691.       32-1       Antigenic Index       251-257         1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1689.	32-1	Antigenic Index	200-204
1692.       32-1       Antigenic Index       265-274         1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1690.	32-1	Antigenic Index	217-236
1693.       32-1       Antigenic Index       278-280         1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1691.	32-1	Antigenic Index	251-257
1694.       32-1       Antigenic Index       288-296         1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1692.	32-1	Antigenic Index	265-274
1695.       32-1       Antigenic Index       305-336         1696.       32-1       Antigenic Index       344-361	1693.	32-1	Antigenic Index	278-280
1696. 32-1 Antigenic Index 344-361	1694.	32-1	Antigenic Index	288-296
	1695.	32-1	Antigenic Index	305-336
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1749.         33-1         Antigenic Index         272-287           1750.         33-1         Antigenic Index         289-307           1751.         33-1         Antigenic Index         310-312           1752.         33-1         Antigenic Index         314-316           1753.         33-1         Antigenic Index         328-337           1754.         33-1         Antigenic Index         339-341           1755.         33-1         Antigenic Index         344-357           1756.         33-1         Antigenic Index         359-367           1757.         33-1         Antigenic Index         359-367           1758.         33-1         Antigenic Index         377-385           1759.         33-1         Antigenic Index         408-419           1760.         33-1         Antigenic Index         408-419           1761.         33-1         Antigenic Index         433-446           1762.         33-1         Hydrophilicity         3-10           1763.         33-1         Hydrophilicity         3-16           1764.         33-1         Hydrophilicity         31-6           1765.         33-1         Hydrophilicity         31-6 </td <td>1747.</td> <td>33-1</td> <td>Antigenic Index</td> <td>218-221</td>	1747.	33-1	Antigenic Index	218-221
1750.         33-1         Antigenic Index         289-307           1751.         33-1         Antigenic Index         310-312           1752.         33-1         Antigenic Index         314-316           1753.         33-1         Antigenic Index         318-321           1754.         33-1         Antigenic Index         328-337           1755.         33-1         Antigenic Index         339-341           1756.         33-1         Antigenic Index         359-367           1757.         33-1         Antigenic Index         359-367           1758.         33-1         Antigenic Index         377-385           1759.         33-1         Antigenic Index         389-396           1760.         33-1         Antigenic Index         408-419           1761.         33-1         Antigenic Index         408-419           1762.         33-1         Hydrophilicity         3-10           1763.         33-1         Hydrophilicity         13-16           1764.         33-1         Hydrophilicity         13-16           1765.         33-1         Hydrophilicity         31-66           1766.         33-1         Hydrophilicity         151-160	1748.	33-1	Antigenic Index	224-241
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1752.         33-1         Antigenic Index         314-316           1753.         33-1         Antigenic Index         318-321           1754.         33-1         Antigenic Index         328-337           1755.         33-1         Antigenic Index         339-341           1756.         33-1         Antigenic Index         344-357           1757.         33-1         Antigenic Index         359-367           1758.         33-1         Antigenic Index         389-396           1760.         33-1         Antigenic Index         408-419           1761.         33-1         Antigenic Index         433-446           1762.         33-1         Hydrophilicity         3-10           1763.         33-1         Hydrophilicity         3-10           1764.         33-1         Hydrophilicity         26-29           1765.         33-1         Hydrophilicity         31-66           1766.         33-1         Hydrophilicity         138-143           1767.         33-1         Hydrophilicity         225-235           1769.         33-1         Hydrophilicity         225-235           1770.         33-1         Hydrophilicity         239-241 <td>1750.</td> <td>33-1</td> <td>Antigenic Index</td> <td>289-307</td>	1750.	33-1	Antigenic Index	289-307
1753.         33-1         Antigenic Index         318-321           1754.         33-1         Antigenic Index         328-337           1755.         33-1         Antigenic Index         339-341           1756.         33-1         Antigenic Index         344-357           1757.         33-1         Antigenic Index         359-367           1758.         33-1         Antigenic Index         389-396           1760.         33-1         Antigenic Index         408-419           1761.         33-1         Antigenic Index         408-419           1761.         33-1         Antigenic Index         408-419           1762.         33-1         Hydrophilicity         3-10           1763.         33-1         Hydrophilicity         13-16           1764.         33-1         Hydrophilicity         31-66           1765.         33-1         Hydrophilicity         31-66           1766.         33-1         Hydrophilicity         138-143           1767.         33-1         Hydrophilicity         151-160           1768.         33-1         Hydrophilicity         225-235           1769.         33-1         Hydrophilicity         272-283 <td>1751.</td> <td>33-1</td> <td>Antigenic Index</td> <td>310-312</td>	1751.	33-1	Antigenic Index	310-312
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1756.       33-1       Antigenic Index       344-357         1757.       33-1       Antigenic Index       359-367         1758.       33-1       Antigenic Index       377-385         1759.       33-1       Antigenic Index       408-419         1760.       33-1       Antigenic Index       408-419         1761.       33-1       Antigenic Index       433-446         1762.       33-1       Hydrophilicity       3-10         1763.       33-1       Hydrophilicity       13-16         1764.       33-1       Hydrophilicity       26-29         1765.       33-1       Hydrophilicity       31-66         1766.       33-1       Hydrophilicity       151-160         1767.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       318-321         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       339-341         1775.       33-1       Hydrophilicity       34-346	1754.	33-1	Antigenic Index	328-337
1757.       33-1       Antigenic Index       359-367         1758.       33-1       Antigenic Index       377-385         1759.       33-1       Antigenic Index       389-396         1760.       33-1       Antigenic Index       408-419         1761.       33-1       Antigenic Index       433-446         1762.       33-1       Hydrophilicity       3-10         1763.       33-1       Hydrophilicity       13-16         1764.       33-1       Hydrophilicity       31-66         1765.       33-1       Hydrophilicity       138-143         1766.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       318-321         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346	1755.	33-1	Antigenic Index	339-341
1758.       33-1       Antigenic Index       377-385         1759.       33-1       Antigenic Index       389-396         1760.       33-1       Antigenic Index       408-419         1761.       33-1       Antigenic Index       433-446         1762.       33-1       Hydrophilicity       3-10         1763.       33-1       Hydrophilicity       13-16         1764.       33-1       Hydrophilicity       26-29         1765.       33-1       Hydrophilicity       31-66         1766.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357      <	1756.	33-1	Antigenic Index	344-357
1759.       33-1       Antigenic Index       389-396         1760.       33-1       Antigenic Index       408-419         1761.       33-1       Antigenic Index       433-446         1762.       33-1       Hydrophilicity       3-10         1763.       33-1       Hydrophilicity       13-16         1764.       33-1       Hydrophilicity       26-29         1765.       33-1       Hydrophilicity       138-143         1767.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       343-337         1776.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       378-385	1757.	33-1	Antigenic Index	359-367
1760.       33-1       Antigenic Index       408-419         1761.       33-1       Antigenic Index       433-446         1762.       33-1       Hydrophilicity       3-10         1763.       33-1       Hydrophilicity       13-16         1764.       33-1       Hydrophilicity       26-29         1765.       33-1       Hydrophilicity       138-143         1766.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       348-357         1776.       33-1       Hydrophilicity       348-357         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396      <	1758.	33-1	Antigenic Index	377-385
1760.       33-1       Antigenic Index       408-419         1761.       33-1       Antigenic Index       433-446         1762.       33-1       Hydrophilicity       3-10         1763.       33-1       Hydrophilicity       26-29         1764.       33-1       Hydrophilicity       31-66         1766.       33-1       Hydrophilicity       138-143         1767.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       339-341         1775.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396      <	1759.	33-1	Antigenic Index	389-396
1762.       33-1       Hydrophilicity       3-10         1763.       33-1       Hydrophilicity       13-16         1764.       33-1       Hydrophilicity       26-29         1765.       33-1       Hydrophilicity       31-66         1766.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       339-341         1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419	1760.	33-1	Antigenic Index	408-419
1763.       33-1       Hydrophilicity       13-16         1764.       33-1       Hydrophilicity       26-29         1765.       33-1       Hydrophilicity       31-66         1766.       33-1       Hydrophilicity       138-143         1767.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       348-357         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419 <t< td=""><td>1761.</td><td>33-1</td><td>Antigenic Index</td><td>433-446</td></t<>	1761.	33-1	Antigenic Index	433-446
1764.       33-1       Hydrophilicity       26-29         1765.       33-1       Hydrophilicity       31-66         1766.       33-1       Hydrophilicity       138-143         1767.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       293-307         1771.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446	1762.	33-1	Hydrophilicity	3-10
1765.       33-1       Hydrophilicity       31-66         1766.       33-1       Hydrophilicity       138-143         1767.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       318-321         1772.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15	1763.	33-1	Hydrophilicity	13-16
1766.       33-1       Hydrophilicity       138-143         1767.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       339-341         1775.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1764.	33-1	Hydrophilicity	26-29
1767.       33-1       Hydrophilicity       151-160         1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1765.	33-1	Hydrophilicity	31-66
1768.       33-1       Hydrophilicity       225-235         1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1766.	33-1	Hydrophilicity	138-143
1769.       33-1       Hydrophilicity       239-241         1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       359-367         1778.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1767.	33-1	Hydrophilicity	151-160
1770.       33-1       Hydrophilicity       272-283         1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1768.	33-1	Hydrophilicity	225-235
1771.       33-1       Hydrophilicity       293-307         1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       349-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1769.	33-1	Hydrophilicity	239-241
1772.       33-1       Hydrophilicity       318-321         1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1770.	33-1	Hydrophilicity	272-283
1773.       33-1       Hydrophilicity       329-332         1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       359-367         1778.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1771.	33-1	Hydrophilicity	293-307
1774.       33-1       Hydrophilicity       334-337         1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       389-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1772.	33-1	Hydrophilicity	318-321
1775.       33-1       Hydrophilicity       339-341         1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1773.	33-1	Hydrophilicity	329-332
1776.       33-1       Hydrophilicity       344-346         1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1774.	33-1	Hydrophilicity	334-337
1777.       33-1       Hydrophilicity       348-357         1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1775.	33-1	Hydrophilicity	339-341
1778.       33-1       Hydrophilicity       359-367         1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1776.	33-1	Hydrophilicity	344-346
1779.       33-1       Hydrophilicity       378-385         1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1777.	33-1	Hydrophilicity	348-357
1780.       33-1       Hydrophilicity       389-396         1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1778.	33-1	Hydrophilicity	359-367
1781.       33-1       Hydrophilicity       408-419         1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1779.	33-1	Hydrophilicity	378-385
1782.       33-1       Hydrophilicity       433-446         1783.       34-1       AMPHI       13-15         1784.       34-1       AMPHI       19-22	1780.	33-1	Hydrophilicity	389-396
1783.     34-1     AMPHI     13-15       1784.     34-1     AMPHI     19-22	1781.	33-1	Hydrophilicity	408-419
1784. 34-1 AMPHI 19-22	1782.	33-1	Hydrophilicity	433-446
	1783.	34-1	AMPHI	13-15
1785. 34-1 AMPHI 24-31	1784.	34-1	AMPHI	19-22
	1785.	34-1	AMPHI	24-31

1786.	34-1	AMPHI	55-57
1787.	34-1	AMPHI	79-81
1788.	34-1	AMPHI	134-143
1789.	34-1	AMPHI	153-156
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1790.	34-1	AMPHI	163-168
1791.	34-1	AMPHI	175-178
1792.	34-1	AMPHI	185-193
1793.	34-1	AMPHI	202-211
1794.	34-1	AMPHI	220-235
1795.	34-1	AMPHI	250-256
1796.	34-1	AMPHI	277-280
1797.	34-1	AMPHI	299-308
1798.	34-1	AMPHI	319-329
1799.	34-1	AMPHI	344-346
1800.	34-1	AMPHI	365-368
1801.	34-1	AMPHI	371-373
1802.	34-1	АМРНІ	405-410
1803.	34-1	АМРНІ	420-424
1804.	34-1	Antigenic Index	18-25
1805	34-1	Antigenic Index	59-67
1806.	34-1	Antigenic Index	85-88
1807.	34-1	Antigenic Index	107-115
1808.	34-1	Antigenic Index	119-128
1809.	34-1	Antigenic Index	133-136
1810.	34-1	Antigenic Index	141-143
1811.	34-1	Antigenic Index	145-156
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1814.	34-1	Antigenic Index	231-233
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1816.	34-1	Antigenic Index	262-267
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1822.	34-1	Antigenic Index	351-359
1823.	34-1	Antigenic Index	371-383
1824.	34-1	Antigenic Index	388-409
1825.	34-1	Antigenic Index	411-429
1826.	34-1	Antigenic Index	441-446
1827.	34-1	Hydrophilicity	19-25
1828.	34-1	Hydrophilicity	62-65
1829.	34-1	Hydrophilicity	108-112

1830.	34-1	Hydrophilicity	124-128
1831.	34-1	Hydrophilicity	150-153
1832.	34-1	Hydrophilicity	191-195
1833.	34-1	Hydrophilicity	218-229
1834.	34-1	Hydrophilicity	231-233
1835.	34-1	Hydrophilicity	239-242
1836.	34-1	Hydrophilicity	248-250
1837.	34-1	Hydrophilicity	262-266
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1847.	34-1	Hydrophilicity	411-428
1848.	37-1	AMPHI	6-8
1849.	37-1	АМРНІ	24-31
1850.	37-1	AMPHI	64-74
1851.	37-1	AMPHI	99-107
1852.	37-1	AMPHI	135-151
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1854.	37-1	AMPHI	181-185
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1856.	37-1	Hydrophilicity	25-34
1857.	37-1	Hydrophilicity	55-64
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1859.	37-1	Hydrophilicity	91-100
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1861.	37-1	Hydrophilicity	159-172
1862.	37-1	Hydrophilicity	180-196
1863.	46-1	AMPHI	19-22
1864.	46-1	AMPHI	57-59
1865.	46-1	AMPHI	77-82
1866.	46-1	AMPHI	84-93
1867.	46-1	АМРНІ	103-111
1868.	46-1	AMPHI	123-134
1869.	46-1	АМРНІ	142-145
1870.	46-1	AMPHI	169-179
1871.	46-1	АМРНІ	182-195
1872.	46-1	AMPHI	202-226
1873.	46-1	Antigenic Index	13-19

1874.	46-1	Antigenic Index	22-34
1875.	46-1	Antigenic Index	38-49
1876.	46-1	Antigenic Index	53-59
1877.	46-1	Antigenic Index	72-74
1878.	46-1	Antigenic Index	81-109
1879.	46-1	Antigenic Index	116-144
1880.	46-1	Antigenic Index	146-150
1881.	46-1	Antigenic Index	159-180
1882.	46-1	Antigenic Index	185-206
1883.	46-1	Antigenic Index	212-217
1884.	46-1	Antigenic Index	225-227
1885.	46-1	Hydrophilicity	17-19
1886.	46-1	Hydrophilicity	22-24
1887.	46-1	Hydrophilicity	26-33
1888.	46-1	Hydrophilicity	39-48
1889.	46-1	Hydrophilicity	81-87
1890.	46-1	Hydrophilicity	95-106
1891.	46-1	Hydrophilicity	126-132
1892.	46-1	Hydrophilicity	140-144
1893.	46-1	Hydrophilicity	160-176
1894.	46-1	Hydrophilicity	188-206
1895.	46-1	Hydrophilicity	215-217
1896.	46-1	Hydrophilicity	225-227
1897.	47-1	AMPHI	13-25
1898.	47-1	AMPHI	37-40
1899.	47-1	AMPHI	65-73
1900.	47-1	AMPHI	95-101
1901.	47-1	AMPHI	105-108
1902.	47-1	AMPHI	138-140
1903.	47-1	AMPHI	158-168
1904.	47-1	AMPHI	174-181
1905.	47-1	AMPHI	183-185
1906.	47-1	AMPHI	188-190
1907.	47-1	AMPHI	194-196
1908.	47-1	AMPHI	225-230
1909.	47-1	AMPHI	241-250
1910.	47-1	AMPHI	269-271
1911.	47-1	AMPHI	292-296
1912.	47-1	AMPHI	337-342
1913.	47-1	Antigenic Index	2-5
1914.	47-1	Antigenic Index	33-35
1915.	47-1	Antigenic Index	37-43
1916.	47-1	Antigenic Index	71-80
1917.	47-1	Antigenic Index	125-133

1918.       47-1       Antigenic Index       155-158         1919.       47-1       Antigenic Index       189-195         1920.       47-1       Antigenic Index       197-204         1921.       47-1       Antigenic Index       251-253         1922.       47-1       Antigenic Index       311-316         1923.       47-1       Antigenic Index       318-322         1924.       47-1       Antigenic Index       350-356         1925.       47-1       Antigenic Index       350-356         1926.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       75-78         1929.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       111-115	
1920.       47-1       Antigenic Index       197-204         1921.       47-1       Antigenic Index       251-253         1922.       47-1       Antigenic Index       311-316         1923.       47-1       Antigenic Index       318-322         1924.       47-1       Antigenic Index       344-347         1925.       47-1       Antigenic Index       350-356         1926.       47-1       Antigenic Index       375-384         1927.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       75-78         1929.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       352-354         1932.       47-1       Hydrophilicity       377-384         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1921.       47-1       Antigenic Index       251-253         1922.       47-1       Antigenic Index       311-316         1923.       47-1       Antigenic Index       318-322         1924.       47-1       Antigenic Index       344-347         1925.       47-1       Antigenic Index       350-356         1926.       47-1       Antigenic Index       375-384         1927.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1922.       47-1       Antigenic Index       311-316         1923.       47-1       Antigenic Index       318-322         1924.       47-1       Antigenic Index       344-347         1925.       47-1       Antigenic Index       350-356         1926.       47-1       Antigenic Index       375-384         1927.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1923.       47-1       Antigenic Index       318-322         1924.       47-1       Antigenic Index       344-347         1925.       47-1       Antigenic Index       350-356         1926.       47-1       Antigenic Index       375-384         1927.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1924.       47-1       Antigenic Index       344-347         1925.       47-1       Antigenic Index       350-356         1926.       47-1       Antigenic Index       375-384         1927.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       127-132         1929.       47-1       Hydrophilicity       191-194         1930.       47-1       Hydrophilicity       251-253         1931.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1925.       47-1       Antigenic Index       350-356         1926.       47-1       Antigenic Index       375-384         1927.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       75-78         1929.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1926.       47-1       Antigenic Index       375-384         1927.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       75-78         1929.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1927.       47-1       Hydrophilicity       2-5         1928.       47-1       Hydrophilicity       75-78         1929.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1928.       47-1       Hydrophilicity       75-78         1929.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1929.       47-1       Hydrophilicity       127-132         1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1930.       47-1       Hydrophilicity       191-194         1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1931.       47-1       Hydrophilicity       251-253         1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1932.       47-1       Hydrophilicity       352-354         1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1933.       47-1       Hydrophilicity       377-384         1934.       48-1       AMPHI       49-52         1935.       48-1       AMPHI       68-102	
1934.     48-1     AMPHI     49-52       1935.     48-1     AMPHI     68-102	
1935. 48-1 AMPHI 68-102	
1936. 48-1 AMPHI 111-115	
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1937. 48-1 AMPHI 143-149	
1938. 48-1 AMPHI 158-161	
1939. 48-1 AMPHI 164-166	
1940. 48-1 AMPHI 198-200	
1941. 48-1 AMPHI 214-218	
1942. 48-1 AMPHI 220-222	
1943. 48-1 AMPHI 245-249	
1944. 48-1 AMPHI 275-277	
1945. 48-1 AMPHI 279-285	
1946. 48-1 AMPHI 287-290	
1947. 48-1 AMPHI 294-307	
1948. 48-1 AMPHI 309-311	
1949. 48-1 AMPHI 320-323	
1950. 48-1 AMPHI 338-342	
1951. 48-1 AMPHI 352-354	
1952. 48-1 AMPHI 356-358	
1953. 48-1 AMPHI 364-370	
1954. 48-1 AMPHI 385-387	
1955. 48-1 AMPHI 411-415	
1956. 48-1 AMPHI 420-431	
1957. 48-1 AMPHI 447-460	N
1958. 48-1 Antigenic Index 8-12	
1959. 48-1 Antigenic Index 14-17	
1960. 48-1 Antigenic Index 111-113	
1961. 48-1 Antigenic Index 134-141	

1962.	48-1	Antigenic Index	162-169
1963.	48-1	Antigenic Index	173-178
1964.	48-1	Antigenic Index	190-194
1965.	48-1	Antigenic Index	207-214
1966.	48-1	Antigenic Index	217-225
1967.	48-1	Antigenic Index	233-235
1968.	48-1	Antigenic Index	238-243
1969.	48-1	Antigenic Index	251-259
1970.	48-1	Antigenic Index	261-264
1971.	48-1	Antigenic Index	272-278
1972.	48-1	Antigenic Index	289-300
1973.	48-1	Antigenic Index	302-311
1974.	48-1	Antigenic Index	318-342
1975.	48-1	Antigenic Index	344-349
1976.	48-1	Antigenic Index	354-363
1977.	48-1	Antigenic Index	369-377
1978.	48-1	Antigenic Index	385-394
1979.	48-1	Antigenic Index	397-405
1980.	48-1	Antigenic Index	407-413
1981.	48-1	Antigenic Index	428-438
1982.	48-1	Antigenic Index	443-454
1983.	48-1	Antigenic Index	470-472
1984.	48-1	Hydrophilicity	134-141
1985.	48-1	Hydrophilicity	164-168
1986.	48-1	Hydrophilicity	210-214
1987.	48-1	Hydrophilicity	218-225
1988.	48-1	Hydrophilicity	240-243
1989.	48-1	Hydrophilicity	251-258
1990.	48-1	Hydrophilicity	272-278
1991.	48-1	Hydrophilicity	289-300
1992.	48-1	Hydrophilicity	302-310
1993.	48-1	Hydrophilicity	334-342
1994.	48-1	Hydrophilicity	344-349
1995.	48-1	Hydrophilicity	360-363
1996.	48-1	Hydrophilicity	369-374
1997.	48-1	Hydrophilicity	387-390
1998.	48-1	Hydrophilicity	392-394
1999.	48-1	Hydrophilicity	397-402
2000.	48-1	Hydrophilicity	407-413
2001.	48-1	Hydrophilicity	428-438
2002.	48-1	Hydrophilicity	445-447
2003.	48-1	Hydrophilicity	470-472
2004.	53-1	АМРНІ	54-58
2005.	53-1	AMPHI	73-79

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2006.	53-1	AMPHI	144-151
2007.	53-1	AMPHI	170-173
2008.	53-1	AMPHI	196-199
2009.	53-1	AMPHI	206-212
2010.	53-1	AMPHI	240-242
2011.	53-1	AMPHI .	250-255
2012.	53-1	АМРНІ	265-276
2013.	53-1	АМРНІ	281-289
2014.	53-1	АМРНІ	292-294
2015.	53-1	AMPHI	303-320
2016.	53-1	AMPHI	351-370
2017.	53-1	АМРНІ	392-394
2018.	53-1	AMPHI	396-402
2019.	53-1	Antigenic Index	8-15
2020.	53-1	Antigenic Index	36-38
2021.	53-1	Antigenic Index	65-76
2022.	53-1	Antigenic Index	79-84
2023	53-1	Antigenic Index	140-151
2024.	53-1	Antigenic Index	170-183
2025.	53-1	Antigenic Index	216-230
2026.	53-1	Antigenic Index	256-261
2027.	53-1	Antigenic Index	265-268
2028.	53-1	Antigenic Index	282-285
2029.	53-1	Antigenic Index	297-299
2030.	53-1	Antigenic Index	307-309
2031.	53-1	Antigenic Index	311-328
2032.	53-1	Antigenic Index	339-342
2033.	53-1	Antigenic Index	377-388
2034.	53-1	Hydrophilicity	9-13
2035.	53-1	Hydrophilicity	70-76
2036.	53-1	Hydrophilicity	79-84
2037.	53-1	Hydrophilicity	142-151
2038.	53-1	Hydrophilicity	174-176
2039.	53-1	Hydrophilicity	179-182
2040.	53-1	Hydrophilicity	217-230
2041.	53-1	Hydrophilicity	307-309
2042.	53-1	Hydrophilicity	311-327
2043.	53-1	Hydrophilicity	377-386
2044.	56-1	AMPHI	28-32
2045.	56-1	AMPHI	53-61
2046.	56-1	AMPHI	67-70
2047.	56-1	Antigenic Index	19-25
2048.	56-1	Antigenic Index	45-52
2049.	56-1	Antigenic Index	78-84

2050.	56-1	Hydrophilicity	21-23
2051.	56-1	Hydrophilicity	48-50
2052.	58-1	AMPHI	30-33
2053.	58-1	АМРНІ	43-57
2054.	58-1	AMPHI	78-84
2055.	58-1	AMPHI	109-111
2056.	58-1	AMPHI	113-124
2057.	58-1	АМРНІ	137-140
2058.	58-1	AMPHI	173-176
2059.	58-1	AMPHI	183-190
2060.	58-1	AMPHI	196-205
2061.	58-1	АМРНІ	222-228
2062.	58-1	AMPHI	235-239
2063.	58-1	AMPHI	263-265
2064.	58-1	АМРНІ	267-275
2065.	58-1	AMPHI	299-303
2066.	58-1	AMPHI	324-327
2067.	58-1	АМРНІ	335-340
2068.	58-1	AMPHI	361-370
2069.	58-1	АМРНІ	397-401
2070.	58-1	АМРНІ	419-436
2071	58-1	AMPHI	446-454
2072.	58-1	АМРНІ	464-468
2073.	58-1	АМРНІ	570-576
2074.	58-1	AMPHI	597-606
2075.	58-1	АМРНІ	610-616
2076.	58-1	AMPHI	636-645
2077.	58-1	AMPHI	666-673
2078.	58-1	АМРНІ	693-701
2079.	58-1	AMPHI	717-719
2080.	58-1	АМРНІ	721-730
2081.	58-1	AMPHI	749-752
2082.	58-1	AMPHI	755-766
2083.	58-1	AMPHI	768-785
2084.	58-1	AMPHI	792-797
2085.	58-1	АМРНІ	806-811
2086.	58-1	AMPHI	816-825
2087.	58-1	АМРНІ	845-853
2088.	58-1	AMPHI	875-877
2089.	58-1	АМРНІ	898-903
2090.	58-1	AMPHI	911-934
2091.	58-1	АМРНІ	938-943
2092.	58-1	АМРНІ	970-974
2093.	58-1	AMPHI	982-992

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2094.	58-1	Antigenic Index	22-30
2095.	58-1	Antigenic Index	33-57
2096.	58-1	Antigenic Index	80-86
2097.	58-1	Antigenic Index	88-142
2098.	58-1	Antigenic Index	145-175
2099.	58-1	Antigenic Index	178-188
2100.	58-1	Antigenic Index	191-222
2101.	58-1	Antigenic Index	227-237
2102.	58-1	Antigenic Index	241-256
2103.	58-1	Antigenic Index	258-267
2104.	58-1	Antigenic Index	271-278
2105.	58-1	Antigenic Index	285-330
2106.	58-1	Antigenic Index	332-362
2107.	58-1	Antigenic Index	370-333
2108.	58-1	Antigenic Index	375-389
2109.	58-1	Antigenic Index	396-403
2110.	58-1	Antigenic Index	409-445
2111.	58-1	Antigenic Index	447-523
2112.	58-1	Antigenic Index	526-529
2113.	58-1	Antigenic Index	538-551
2114.	58-1	Antigenic Index	554-569
2115.	58-1	Antigenic Index	571-574
2116.	58-1	Antigenic Index	581-594
2117.	58-1	Antigenic Index	596-603
2118.	58-1	Antigenic Index	614-620
2119.	58-1	Antigenic Index	626-635
2120.	58-1	Antigenic Index	641-652
2121.	58-1	Antigenic Index	657-663
2122.	58-1	Antigenic Index	668-671
2123.	58-1	Antigenic Index	680-688
2124.	58-1	Antigenic Index	700-706
2125.	58-1	Antigenic Index	711-715
2126.	58-1	Antigenic Index	734-736
2127.	58-1	Antigenic Index	747-753
2128.	58-1	Antigenic Index	766-795
2129.	58-1	Antigenic Index	806-808
2130.	58-1	Antigenic Index	813-822
2131.	58-1	Antigenic Index	825-831
2132.	58-1	Antigenic Index	840-847
2133.	58-1	Antigenic Index	854-858
2134.	58-1	Antigenic Index	864-874
2135.	58-1	Antigenic Index	884-887
2136.	58-1	Antigenic Index	892-901
2137.	58-1	Antigenic Index	906-913

2138.	58-1	Antigenic Index	919-958
2139.	58-1	Antigenic Index	962-994
2140.	58-1	Antigenic Index	998-1006
2141.	58-1	Antigenic Index	1011-1014
2142.	58-1	Hydrophilicity	22-30
2143.	58-1	Hydrophilicity	33-57
2144.	58-1	Hydrophilicity	88-97
2145.	58-1	Hydrophilicity	100-142
2146.	58-1	Hydrophilicity	146-158
2147.	58-1	Hydrophilicity	162-170
2148.	58-1	Hydrophilicity	173-175
2149.	58-1	Hydrophilicity	178-188
2150.	58-1	Hydrophilicity	191-220
2151.	58-1	Hydrophilicity	227-233
2152.	58-1	Hydrophilicity	241-255
2153.	58-1	Hydrophilicity	259-264
2154.	58-1	Hydrophilicity	271-277
2155.	58-1	Hydrophilicity	285-301
2156.	58-1	Hydrophilicity	304-307
2157.	58-1	Hydrophilicity	309-330
2158.	58-1	Hydrophilicity	332-341
2159.	58-1	Hydrophilicity	344-362
2160.	58-1	Hydrophilicity	375-389
2161.	58-1	Hydrophilicity	397-402
2162.	58-1	Hydrophilicity	423-426
2163.	58-1	Hydrophilicity	432-445
2164.	58-1	Hydrophilicity	447-449
2165.	58-1	Hydrophilicity	453-473
2166.	58-1	Hydrophilicity	478-484
2167.	58-1	Hydrophilicity	496-523
2168.	58-1	Hydrophilicity	542-551
2169.	58-1	Hydrophilicity	554-569
2170.	58-1	Hydrophilicity	581-591
2171.	58-1	Hydrophilicity	596-603
2172.	58-1	Hydrophilicity	627-635
2173.	58-1	Hydrophilicity	644-652
2174.	58-1	Hydrophilicity	668-671
2175.	58-1	Hydrophilicity	682-688
2176.	58-1	Hydrophilicity	700-706
2177.	58-1	Hydrophilicity	713-715
2178.	58-1	Hydrophilicity	747-753
2179.	58-1	Hydrophilicity	769-781
2180.	58-1	Hydrophilicity	787-795
2181.	58-1	Hydrophilicity	806-808

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2182.	58-1	Hydrophilicity	814-822
2183.	58-1	Hydrophilicity	825-831
2184.	58-1	Hydrophilicity	841-845
2185.	58-1	Hydrophilicity	866-874
2186.	58-1	Hydrophilicity	906-913
2187.	58-1	Hydrophilicity	921-923
21 <u>88</u> .	58-1	Hydrophilicity	925-928
2189.	58-1	Hydrophilicity	934-941
2190.	58-1	Hydrophilicity	943-958
2191.	58-1	Hydrophilicity	962-968
2192.	58-1	Hydrophilicity	974-976
2193.	58-1	Hydrophilicity	982-994
2194.	58-1	Hydrophilicity	999-1004
2195.	61-1	АМРНІ	7-31
2196.	61-1	АМРНІ	37-53
2197.	61-1	AMPHI	55-77
2198.	61-1	AMPHI	98-100
2199.	61-1	АМРНІ	104-107
2200.	61-1	АМРНІ	124-133
2201.	61-1	AMPHI	135-137
2202.	61-1	AMPHI	155-158
2203.	61-1	АМРНІ	165-169
2204.	61-1	AMPHI	198-200
2205.	61-1	АМРНІ	219-230
2206.	61-1	АМРНІ	265-268
2207.	61-1	АМРНІ	291-303
2208.	61-1	АМРНІ	362-374
2209.	61-1	AMPHI	376-379
2210.	61-1	AMPHI	391-399
2211.	61-1	AMPHI	404-406
2212.	61-1	АМРНІ	426-443
2213.	61-1	АМРНІ	493-498
2214.	61-1	AMPHI	511-521
2215.	61-1	АМРНІ	541-543
2216.	61-1	АМРНІ	550-559
2217.	61-1	АМРНІ	567-569
2218.	61-1	AMPHI	576-581
2219.	61-1	Antigenic Index	15-17
2220.	61-1	Antigenic Index	28-36
2221.	61-1	Antigenic Index	38-41
2222.	61-1	Antigenic Index	50-58
2223.	61-1	Antigenic Index	71-82
2224.	61-1	Antigenic Index	86-99
2225.	61-1	Antigenic Index	102-110

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2226.	61-1	Antigenic Index	116-135
2227.	61-1	Antigenic Index	141-143
2228.	61-1	Antigenic Index	145-154
2229.	61-1	Antigenic Index	162-168
2230.	61-1	Antigenic Index	170-172
2231.	61-1	Antigenic Index	178-180
2232.	61-1	Antigenic Index	182-190
2233.	61-1	Antigenic Index	196-204
2234.	61-1	Antigenic Index	215-221
2235.	61-1	Antigenic Index	231-239
2236.	61-1	Antigenic Index	258-264
2237.	61-1	Antigenic Index	272-279
2238.	61-1	Antigenic Index	284-291
2239.	61-1	Antigenic Index	293-302
2240.	61-1	Antigenic Index	307-339
2241.	61-1	Antigenic Index	344-350
2242.	61-1	Antigenic Index	356-359
2243.	61-1	Antigenic Index	364-375
2244.	61-1	Antigenic Index	378-388
2245.	61-1	Antigenic Index	395-403
2246.	61-1	Antigenic Index	405-411
2247.	61-1	Antigenic Index	413-416
2248.	61-1	Antigenic Index	424-437
2249.	61-1	Antigenic Index	440-450
2250.	61-1	Antigenic Index	464-473
2251.	61-1	Antigenic Index	483-488
2252.	61-1	Antigenic Index	492-503
2253.	61-1	Antigenic Index	507-510
2254.	61-1	Antigenic Index	529-541
2255.	61-1	Antigenic Index	547-555
2256.	61-1	Antigenic Index	565-571
2257.	61-1	Antigenic Index	584-591
2258.	61-1	Hydrophilicity	15-17
2259.	61-1	Hydrophilicity	28-36
2260.	61-1	Hydrophilicity	50-55
2261.	61-1	Hydrophilicity	71-82
2262.	61-1	Hydrophilicity	86-99
2263.	61-1	Hydrophilicity	102-110
2264.	61-1	Hydrophilicity	118-135
2265.	61-1	Hydrophilicity	148-150
2266.	61-1	Hydrophilicity	162-168
2267.	61-1	Hydrophilicity	170-172
2268.	61-1	Hydrophilicity	183-190
2269.	61-1	Hydrophilicity	196-202

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2271.   61-1   Hydrophilicity   232-239				<del></del>
2272.         61-1         Hydrophilicity         259-263           2273.         61-1         Hydrophilicity         272-279           2274.         61-1         Hydrophilicity         285-291           2275.         61-1         Hydrophilicity         293-300           2276.         61-1         Hydrophilicity         307-316           2277.         61-1         Hydrophilicity         346-350           2278.         61-1         Hydrophilicity         367-372           2280.         61-1         Hydrophilicity         378-386           2281.         61-1         Hydrophilicity         395-402           2282.         61-1         Hydrophilicity         405-411           2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         424-434           2285.         61-1         Hydrophilicity         442-434           2285.         61-1         Hydrophilicity         442-434           2285.         61-1         Hydrophilicity         443-488           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         59-551 <td>2270.</td> <td>61-1</td> <td></td> <td>217-221</td>	2270.	61-1		217-221
2273.         61-1         Hydrophilicity         272-279           2274.         61-1         Hydrophilicity         285-291           2275.         61-1         Hydrophilicity         293-300           2276.         61-1         Hydrophilicity         307-316           2277.         61-1         Hydrophilicity         320-339           2278.         61-1         Hydrophilicity         346-350           2279.         61-1         Hydrophilicity         378-386           2281.         61-1         Hydrophilicity         395-402           2282.         61-1         Hydrophilicity         405-411           2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         464-470           2286.         61-1         Hydrophilicity         493-503           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         549-555 <td>2271.</td> <td>61-1</td> <td>Hydrophilicity</td> <td>232-239</td>	2271.	61-1	Hydrophilicity	232-239
2274.         61-1         Hydrophilicity         285-291           2275.         61-1         Hydrophilicity         293-300           2276.         61-1         Hydrophilicity         307-316           2277.         61-1         Hydrophilicity         320-339           2278.         61-1         Hydrophilicity         346-350           2279.         61-1         Hydrophilicity         378-386           2281.         61-1         Hydrophilicity         395-402           2282.         61-1         Hydrophilicity         405-411           2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         464-470           2286.         61-1         Hydrophilicity         483-488           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         62-1         Hydrophilicity         584-591 <td>2272.</td> <td>61-1</td> <td>Hydrophilicity</td> <td>259-263</td>	2272.	61-1	Hydrophilicity	259-263
2275.         61-1         Hydrophilicity         293-300           2276.         61-1         Hydrophilicity         307-316           2277.         61-1         Hydrophilicity         320-339           2278.         61-1         Hydrophilicity         346-350           2279.         61-1         Hydrophilicity         367-372           2280.         61-1         Hydrophilicity         395-402           2281.         61-1         Hydrophilicity         405-411           2282.         61-1         Hydrophilicity         424-434           2283.         61-1         Hydrophilicity         424-448           2285.         61-1         Hydrophilicity         464-470           2286.         61-1         Hydrophilicity         483-488           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         549-555           2291.         61-1         Hydrophilicity         565-571           2292.         62-1         AMPHI         38-57 <td>2273.</td> <td>61-1</td> <td>Hydrophilicity</td> <td>272-279</td>	2273.	61-1	Hydrophilicity	272-279
2276.         61-1         Hydrophilicity         307-316           2277.         61-1         Hydrophilicity         320-339           2278.         61-1         Hydrophilicity         346-350           2279.         61-1         Hydrophilicity         367-372           2280.         61-1         Hydrophilicity         395-402           2281.         61-1         Hydrophilicity         405-411           2282.         61-1         Hydrophilicity         442-434           2283.         61-1         Hydrophilicity         442-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         442-448           2286.         61-1         Hydrophilicity         493-503           2287.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         549-555           2291.         61-1         Hydrophilicity         58-571           2292.         62-1         AMPHI         38-57	2274.	61-1	Hydrophilicity	285-291
2277.         61-1         Hydrophilicity         320-339           2278.         61-1         Hydrophilicity         346-350           2279.         61-1         Hydrophilicity         367-372           2280.         61-1         Hydrophilicity         378-386           2281.         61-1         Hydrophilicity         405-411           2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         443-488           2287.         61-1         Hydrophilicity         483-488           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         584-591           2291.         62-1         AMPHI         38-57           2292.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           <	2275.	61-1	Hydrophilicity	293-300
2278.         61-1         Hydrophilicity         346-350           2279.         61-1         Hydrophilicity         367-372           2280.         61-1         Hydrophilicity         378-386           2281.         61-1         Hydrophilicity         405-411           2282.         61-1         Hydrophilicity         424-434           2283.         61-1         Hydrophilicity         442-448           2284.         61-1         Hydrophilicity         464-470           2285.         61-1         Hydrophilicity         493-503           2286.         61-1         Hydrophilicity         493-503           2287.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         549-555           2291.         61-1         Hydrophilicity         549-555           2291.         61-1         Hydrophilicity         549-555           2291.         62-1         AMPHI         38-57           2292.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           <	2276.	61-1	Hydrophilicity	307-316
2279.         61-1         Hydrophilicity         367-372           2280.         61-1         Hydrophilicity         378-386           2281.         61-1         Hydrophilicity         395-402           2282.         61-1         Hydrophilicity         405-411           2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         483-488           2286.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         38-57           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.	2277.	61-1	Hydrophilicity	320-339
2280.         61-1         Hydrophilicity         378-386           2281.         61-1         Hydrophilicity         395-402           2282.         61-1         Hydrophilicity         405-411           2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         463-470           2286.         61-1         Hydrophilicity         493-503           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.	2278.	61-1	Hydrophilicity	346-350
2281.         61-1         Hydrophilicity         395-402           2282.         61-1         Hydrophilicity         405-411           2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         464-470           2286.         61-1         Hydrophilicity         493-503           2287.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         36-75           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         246-249           2297.         62-1         AMPHI         259-268           2299.         62-1<	2279.	61-1	Hydrophilicity	367-372
2282.         61-1         Hydrophilicity         405-411           2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         464-470           2286.         61-1         Hydrophilicity         493-503           2287.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         584-591           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         38-57           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         259-268           2299.         62-1         Antigenic Index         107-112           2301.	2280.	61-1	Hydrophilicity	378-386
2283.         61-1         Hydrophilicity         424-434           2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         463-470           2286.         61-1         Hydrophilicity         483-488           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         226-235           2299.         62-1         Antigenic Index         44-59           2300.         62-1         Antigenic Index         107-112           2301.         62-	2281.	61-1	Hydrophilicity	395-402
2284.         61-1         Hydrophilicity         442-448           2285.         61-1         Hydrophilicity         464-470           2286.         61-1         Hydrophilicity         483-488           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         Antigenic Index         44-59           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         132-141           2302.         62	2282.	61-1	Hydrophilicity	405-411
2285.         61-1         Hydrophilicity         464-470           2286.         61-1         Hydrophilicity         483-488           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         AMPHI         259-268           2299.         62-1         Antigenic Index         107-112           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         132-141           2302.         62-1	2283.	61-1	Hydrophilicity	424-434
2286.         61-1         Hydrophilicity         483-488           2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         584-551           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         AMPHI         259-268           2299.         62-1         Antigenic Index         107-112           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         160-163           2303.         62-1         Antigenic Index         215-217           2304.         62-1 <td>2284.</td> <td>61-1</td> <td>Hydrophilicity</td> <td>442-448</td>	2284.	61-1	Hydrophilicity	442-448
2287.         61-1         Hydrophilicity         493-503           2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         584-591           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         ANPHI         259-268           2299.         62-1         Antigenic Index         44-59           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         160-163           2303.         62-1         Antigenic Index         165-167           2304.         62-1         Antigenic Index         215-217           2305.         62-1	2285.	61-1	Hydrophilicity	464-470
2288.         61-1         Hydrophilicity         529-541           2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         Antigenic Index         44-59           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         132-141           2302.         62-1         Antigenic Index         160-163           2303.         62-1         Antigenic Index         215-217           2304.         62-1         Antigenic Index         224-232           2305.         62-1         Antigenic Index         2258-260           2307.         <	2286.	61-1	Hydrophilicity	483-488
2289.         61-1         Hydrophilicity         549-555           2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         AMPHI         259-268           2299.         62-1         Antigenic Index         44-59           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         132-141           2302.         62-1         Antigenic Index         160-163           2303.         62-1         Antigenic Index         215-217           2304.         62-1         Antigenic Index         224-232           2305.         62-1         Antigenic Index         228-260           2307.         62-1         Antigenic Index         258-260           2309.         <	2287.	61-1	Hydrophilicity	493-503
2290.         61-1         Hydrophilicity         565-571           2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         155-171           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         AMPHI         259-268           2299.         62-1         Antigenic Index         44-59           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         132-141           2302.         62-1         Antigenic Index         160-163           2303.         62-1         Antigenic Index         215-217           2304.         62-1         Antigenic Index         224-232           2305.         62-1         Antigenic Index         228-260           2307.         62-1         Antigenic Index         280-284           2308.         62-1 </td <td>2288.</td> <td>61-1</td> <td>Hydrophilicity</td> <td>529-541</td>	2288.	61-1	Hydrophilicity	529-541
2291.         61-1         Hydrophilicity         584-591           2292.         62-1         AMPHI         6-8           2293.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         66-75           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         AMPHI         259-268           2299.         62-1         Antigenic Index         44-59           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         132-141           2302.         62-1         Antigenic Index         160-163           2303.         62-1         Antigenic Index         215-217           2304.         62-1         Antigenic Index         224-232           2305.         62-1         Antigenic Index         258-260           2307.         62-1         Antigenic Index         280-284           2308.         62-1         Hydrophilicity         45-59           2309.         62-1	2289.	61-1	Hydrophilicity	549-555
2292.         62-1         AMPHI         38-57           2294.         62-1         AMPHI         38-57           2295.         62-1         AMPHI         155-171           2296.         62-1         AMPHI         228-235           2297.         62-1         AMPHI         246-249           2298.         62-1         AMPHI         259-268           2299.         62-1         Antigenic Index         44-59           2300.         62-1         Antigenic Index         107-112           2301.         62-1         Antigenic Index         160-163           2302.         62-1         Antigenic Index         165-167           2303.         62-1         Antigenic Index         215-217           2304.         62-1         Antigenic Index         224-232           2305.         62-1         Antigenic Index         258-260           2307.         62-1         Antigenic Index         258-260           2308.         62-1         Hydrophilicity         45-59           2309.         62-1         Hydrophilicity         109-112           2310.         62-1         Hydrophilicity         133-139           2311.         <	2290.	61-1	Hydrophilicity	565-571
2293.       62-1       AMPHI       38-57         2294.       62-1       AMPHI       66-75         2295.       62-1       AMPHI       155-171         2296.       62-1       AMPHI       228-235         2297.       62-1       AMPHI       246-249         2298.       62-1       AMPHI       259-268         2299.       62-1       Antigenic Index       44-59         2300.       62-1       Antigenic Index       107-112         2301.       62-1       Antigenic Index       132-141         2302.       62-1       Antigenic Index       160-163         2303.       62-1       Antigenic Index       215-217         2304.       62-1       Antigenic Index       224-232         2305.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2291.	61-1	Hydrophilicity	584-591
2294.       62-1       AMPHI       66-75         2295.       62-1       AMPHI       155-171         2296.       62-1       AMPHI       228-235         2297.       62-1       AMPHI       246-249         2298.       62-1       AMPHI       259-268         2299.       62-1       Antigenic Index       44-59         2300.       62-1       Antigenic Index       107-112         2301.       62-1       Antigenic Index       160-163         2302.       62-1       Antigenic Index       165-167         2303.       62-1       Antigenic Index       215-217         2304.       62-1       Antigenic Index       224-232         2305.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2292.	62-1	АМРНІ	6-8
2295.       62-1       AMPHI       155-171         2296.       62-1       AMPHI       228-235         2297.       62-1       AMPHI       246-249         2298.       62-1       AMPHI       259-268         2299.       62-1       Antigenic Index       44-59         2300.       62-1       Antigenic Index       107-112         2301.       62-1       Antigenic Index       132-141         2302.       62-1       Antigenic Index       165-167         2303.       62-1       Antigenic Index       215-217         2304.       62-1       Antigenic Index       224-232         2305.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2293.	62-1	АМРНІ	38-57
2296.       62-1       AMPHI       228-235         2297.       62-1       AMPHI       246-249         2298.       62-1       AMPHI       259-268         2299.       62-1       Antigenic Index       44-59         2300.       62-1       Antigenic Index       107-112         2301.       62-1       Antigenic Index       160-163         2302.       62-1       Antigenic Index       165-167         2303.       62-1       Antigenic Index       215-217         2304.       62-1       Antigenic Index       224-232         2305.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2294.	62-1	АМРНІ	66-75
2297.       62-1       AMPHI       246-249         2298.       62-1       AMPHI       259-268         2299.       62-1       Antigenic Index       44-59         2300.       62-1       Antigenic Index       107-112         2301.       62-1       Antigenic Index       132-141         2302.       62-1       Antigenic Index       160-163         2303.       62-1       Antigenic Index       215-217         2304.       62-1       Antigenic Index       224-232         2305.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2295.	62-1	АМРНІ	155-171
2298.       62-1       AMPHI       259-268         2299.       62-1       Antigenic Index       44-59         2300.       62-1       Antigenic Index       107-112         2301.       62-1       Antigenic Index       132-141         2302.       62-1       Antigenic Index       160-163         2303.       62-1       Antigenic Index       215-217         2304.       62-1       Antigenic Index       224-232         2305.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2296.	62-1	АМРНІ	228-235
2299.       62-1       Antigenic Index       44-59         2300.       62-1       Antigenic Index       107-112         2301.       62-1       Antigenic Index       132-141         2302.       62-1       Antigenic Index       160-163         2303.       62-1       Antigenic Index       215-217         2304.       62-1       Antigenic Index       224-232         2305.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2297.	62-1	АМРНІ	246-249
2300.       62-1       Antigenic Index       107-112         2301.       62-1       Antigenic Index       132-141         2302.       62-1       Antigenic Index       160-163         2303.       62-1       Antigenic Index       165-167         2304.       62-1       Antigenic Index       215-217         2305.       62-1       Antigenic Index       224-232         2306.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2298.	62-1	АМРНІ	259-268
2301.       62-1       Antigenic Index       132-141         2302.       62-1       Antigenic Index       160-163         2303.       62-1       Antigenic Index       165-167         2304.       62-1       Antigenic Index       215-217         2305.       62-1       Antigenic Index       224-232         2306.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2299.	62-1	Antigenic Index	44-59
2302.       62-1       Antigenic Index       160-163         2303.       62-1       Antigenic Index       165-167         2304.       62-1       Antigenic Index       215-217         2305.       62-1       Antigenic Index       224-232         2306.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2300.	62-1	Antigenic Index	107-112
2303.       62-1       Antigenic Index       165-167         2304.       62-1       Antigenic Index       215-217         2305.       62-1       Antigenic Index       224-232         2306.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2301.	62-1	Antigenic Index	132-141
2304.       62-1       Antigenic Index       215-217         2305.       62-1       Antigenic Index       224-232         2306.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2302.	62-1	Antigenic Index	160-163
2305.       62-1       Antigenic Index       224-232         2306.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2303.	62-1	Antigenic Index	165-167
2306.       62-1       Antigenic Index       258-260         2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2304.	62-1	Antigenic Index	215-217
2307.       62-1       Antigenic Index       280-284         2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2305.	62-1	Antigenic Index	224-232
2308.       62-1       Hydrophilicity       45-59         2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2306.	62-1	Antigenic Index	258-260
2309.       62-1       Hydrophilicity       109-112         2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2307.	62-1	Antigenic Index	280-284
2310.       62-1       Hydrophilicity       133-139         2311.       62-1       Hydrophilicity       160-163	2308.	62-1	Hydrophilicity	45-59
2311. 62-1 Hydrophilicity 160-163	2309.	62-1	Hydrophilicity	109-112
	2310.	62-1	Hydrophilicity	133-139
	2311.			160 160
2312.   62-1   Hydrophilicity   165-167		62-1	Hydrophilicity	160-163
2313. 62-1 Hydrophilicity 227-229	2312.	62-1 62-1	Hydrophilicity Hydrophilicity	165-167

2314.	62-1	Hydrophilicity	280-284
2315.	64-1	AMPHI	8-12
2316.	64-1	AMPHI	25-28
2317.	64-1	AMPHI	69-86
2318.	64-1	AMPHI	97-119
2319.	64-1	AMPHI	144-146
2320.	64-1	AMPHI	150-164
2321.	64-1	AMPHI	167-170
2322.	64-1	AMPHI	177-183
2323.	64-1	AMPHI	188-190
2324.	64-1	AMPHI	196-216
2325.	64-1	AMPHI	240-244
2326.	64-1	AMPHI	278-288
2320.	64-1	AMPHI	298-304
2327.	64-1	AMPHI	307-313
2329.	64-1	AMPHI	327-340
2330.	64-1	AMPHI	364-373
2331.	64-1	AMPHI	383-393
2331.	64-1	AMPHI	395-400
2332.	64-1	AMPHI	422-429
2334.	64-1	AMPHI	486-498
2335.	64-1	AMPHI	527-551
2336.	64-1	AMPHI	564-571
2337.	64-1	AMPHI	600-617
2338.	64-1	AMPHI	646-658
2339.	64-1	AMPHI	669-671
2340.	64-1	AMPHI	675-678
2341.	64-1	Antigenic Index	1-3
2342.	64-1	Antigenic Index	24-29
2342.	64-1	Antigenic Index	58-66
2344.	64-1	Antigenic Index	71-77
2345.	64-1	Antigenic Index	103-124
2346.	64-1	Antigenic Index	132-134
2347.	64-1	Antigenic Index	148-156
2348.	64-1	Antigenic Index	160-163
2349.	64-1	Antigenic Index	174-213
2350.	64-1	Antigenic Index	225-232
2351.	64-1	Antigenic Index	237-247
2352.	64-1	Antigenic Index	252-259
2353.	64-1	Antigenic Index	262-270
2354.	64-1	Antigenic Index	297-299
2355.	64-1	Antigenic Index	307-331
2356.	64-1	Antigenic Index	344-362
2357.	64-1	Antigenic Index  Antigenic Index	379-392

2250	(4.1	Audia wit T 1	102.400
2358.	64-1	Antigenic Index	402-409
2359.	64-1	Antigenic Index	431-438
2360.	64-1	Antigenic Index	442-451
2361.	64-1	Antigenic Index	456-464
2362.	64-1	Antigenic Index	478-484
2363.	64-1	Antigenic Index	486-500
2364.	64-1	Antigenic Index	505-510
2365.	64-1	Antigenic Index	513-522
2366.	64-1	Antigenic Index	526-533
2367.	64-1	Antigenic Index	537-562
2368.	64-1	Antigenic Index	576-580
2369.	64-1	Antigenic Index	584-586
2370.	64-1	Antigenic Index	608-633
2371.	64-1	Antigenic Index	637-646
2372.	64-1	Antigenic Index	656-666
2373.	64-1	Antigenic Index	673-691
2374.	64-1	Antigenic Index	698-705
2375.	64-1	Hydrophilicity	1-3
2376.	64-1	Hydrophilicity	59-66
2377.	64-1	Hydrophilicity	71-76
2378.	64-1	Hydrophilicity	109-120
2379.	64-1	Hydrophilicity	151-156
2380.	64-1	Hydrophilicity	174-183
2381.	64-1	Hydrophilicity	185-189
2382.	64-1	Hydrophilicity	191-193
2383.	64-1	Hydrophilicity	195-202
2384.	64-1	Hydrophilicity	204-211
2385.	64-1	Hydrophilicity	227-231
2386.	64-1	Hydrophilicity	239-241
2387.	64-1	Hydrophilicity	243-247
2388.	64-1	Hydrophilicity	252-259
2389.	64-1	Hydrophilicity	262-268
2390.	64-1	Hydrophilicity	297-299
2391.	64-1	Hydrophilicity	307-313
2392.	64-1	Hydrophilicity	316-319
2393.	64-1	Hydrophilicity	322-331
2394.	64-1	Hydrophilicity	344-362
2395.	64-1	Hydrophilicity	379-383
2396.	64-1	Hydrophilicity	386-392
2397.	64-1	Hydrophilicity	431-438
2398.	64-1	Hydrophilicity	442-451
2398.	64-1	Hydrophilicity	456-463
2400.	64-1	Hydrophilicity	478-484
		Hydrophilicity	
2401.	64-1	Hydrophilicity	486-497

2402.	- I CA 1	11-1111-14-	505 510
	64-1	Hydrophilicity	505-510
2403.	64-1	Hydrophilicity	515-522
2404.	64-1	Hydrophilicity	527-533
2405.	64-1	Hydrophilicity	537-545
2406.	64-1	Hydrophilicity	574-551
2407.	64-1	Hydrophilicity	553-561
2408.	64-1	Hydrophilicity	584-586
2409.	64-1	Hydrophilicity	608-633
2410.	64-1	Hydrophilicity	639-646
2411.	64-1	Hydrophilicity	657-663
2412	64-1	Hydrophilicity	673-680
2413.	64-1	Hydrophilicity	682-690
2414.	64-1	Hydrophilicity	700-703
2415.	65-1	AMPHI	7-12
2416.	65-1	АМРНІ	15-21
2417.	65-1	AMPHI	44-46
2418.	65-1	AMPHI	73-82
2419.	65-1	AMPHI	90-95
2420.	65-1	АМРНІ	103-107
2421.	65-1	AMPHI	111-114
2422.	65-1	АМРНІ	156-169
2423.	65-1	AMPHI	179-184
2424.	65-1	AMPHI	190-194
2425.	65-1	АМРНІ	196-210
2426.	65-1	AMPHI	251-257
2427.	65-1	AMPHI	264-274
2428.	65-1	Antigenic Index	5-13
2429.	65-1	Antigenic Index	35-213
2430.	65-1	Antigenic Index	222-234
2431.	65-1	Antigenic Index	241-243
2432.	65-1	Antigenic Index	249-253
2433.	65-1	Antigenic Index	257-263
2434.	65-1	Antigenic Index	265-279
2435.	65-1	Antigenic Index	284-289
2436.	65-1	Hydrophilicity	6-12
2437.	65-1	Hydrophilicity	46-182
2438.	65-1	Hydrophilicity	189-213
2439.	65-1	Hydrophilicity	222-234
2440.	65-1	Hydrophilicity	265-279
2441.	65-1	Hydrophilicity	284-289
2442.	66-1	AMPHI	31-33
2443.	66-1	AMPHI	39-43
2444.	66-1	AMPHI	59-67
2445.	66-1	AMPHI	81-88

2447.         66-1         AMPHI         118-135           2448.         66-1         AMPHI         149-154           2449.         66-1         AMPHI         177-179           2450.         66-1         AMPHI         199-207           2451.         66-1         Antigenic Index         8-10           2452.         66-1         Antigenic Index         65-68           2453.         66-1         Antigenic Index         132-136           2454.         66-1         Antigenic Index         132-136           2455.         66-1         Antigenic Index         166-169           2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Antigenic Index         212-228           2459.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         208-210           2460.         66-1         Hydrophilicity         213-223           2460.         66-1         Hydrophilicity         213-223           2461.         66-1         Hydrophilicity         213-238           24				
2448.         66-1         AMPHI         149-154           2449.         66-1         AMPHI         177-179           2450.         66-1         AMPHI         199-207           2451.         66-1         Antigenic Index         8-10           2452.         66-1         Antigenic Index         65-68           2453.         66-1         Antigenic Index         92-95           2454.         66-1         Antigenic Index         166-169           2455.         66-1         Antigenic Index         205-210           2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         94-102           2465.         72-1<	2446.	66-1	АМРНІ	94-107
2449.         66-1         AMPHI         177-179           2450.         66-1         AMPHI         199-207           2451.         66-1         Antigenic Index         8-10           2452.         66-1         Antigenic Index         65-68           2453.         66-1         Antigenic Index         132-136           2454.         66-1         Antigenic Index         166-169           2455.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2459.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         121-129           2465.         72-1<				
2450.         66-1         AMPHI         199-207           2451.         66-1         Antigenic Index         8-10           2452.         66-1         Antigenic Index         65-68           2453.         66-1         Antigenic Index         92-95           2454.         66-1         Antigenic Index         132-136           2455.         66-1         Antigenic Index         205-210           2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         32-38           2464.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         94-102           2465.         72-1         Antigenic Index         26-30           2466. <td< td=""><td>2448.</td><td></td><td>АМРНІ</td><td></td></td<>	2448.		АМРНІ	
2451.         66-1         Antigenic Index         8-10           2452.         66-1         Antigenic Index         65-68           2453.         66-1         Antigenic Index         92-95           2454.         66-1         Antigenic Index         132-136           2455.         66-1         Antigenic Index         205-210           2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         32-38           2464.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         94-102           2465.         72-1         AMPHI         121-129           2467.         72-1         Antigenic Index         32-35           2468. <td< td=""><td>2449.</td><td>66-1</td><td>АМРНІ</td><td></td></td<>	2449.	66-1	АМРНІ	
2452.         66-1         Antigenic Index         65-68           2453.         66-1         Antigenic Index         92-95           2454.         66-1         Antigenic Index         132-136           2455.         66-1         Antigenic Index         166-169           2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         60-69           2465.         72-1         AMPHI         94-102           2466.         72-1         ANTIGENIC Index         32-35           2467.         72-1         Antigenic Index         32-35           2468.         72-1         Antigenic Index         40-47           2470.		66-1	АМРНІ	
2453.         66-1         Antigenic Index         92-95           2454.         66-1         Antigenic Index         132-136           2455.         66-1         Antigenic Index         166-169           2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         208-210           2460.         66-1         Hydrophilicity         213-223           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         94-102           2465.         72-1         AMPHI         94-102           2466.         72-1         ANPHI         121-129           2467.         72-1         Antigenic Index         26-30           2468.         72-1         Antigenic Index         32-35           2469.         72-1         Antigenic Index         40-47           2470.         <	2451.	66-1	Antigenic Index	8-10
2454.         66-1         Antigenic Index         132-136           2455.         66-1         Antigenic Index         166-169           2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         41-52           2465.         72-1         AMPHI         94-102           2466.         72-1         AMPHI         121-129           2467.         72-1         Antigenic Index         26-30           2468.         72-1         Antigenic Index         32-35           2469.         72-1         Antigenic Index         40-47           2470.         72-1         Antigenic Index         51-64           2471. <t< td=""><td>2452.</td><td>66-1</td><td>Antigenic Index</td><td></td></t<>	2452.	66-1	Antigenic Index	
2455.         66-1         Antigenic Index         166-169           2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2462.         72-1         AMPHI         41-52           2463.         72-1         AMPHI         40-52           2464.         72-1         AMPHI         94-102           2465.         72-1         AMPHI         121-129           2466.         72-1         Antigenic Index         26-30           2468.         72-1         Antigenic Index         32-35           2469.         72-1         Antigenic Index         40-47           2470.         72-1         Antigenic Index         51-64           2471.         72-1         Antigenic Index         73-81           2472.	2453.	66-1		92-95
2456.         66-1         Antigenic Index         205-210           2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         60-69           2465.         72-1         AMPHI         94-102           2466.         72-1         ANPHI         121-129           2467.         72-1         Antigenic Index         26-30           2468.         72-1         Antigenic Index         32-35           2469.         72-1         Antigenic Index         40-47           2470.         72-1         Antigenic Index         51-64           2471.         72-1         Antigenic Index         73-81           2472.         72-1         Antigenic Index         95-104           2474.         7	2454.	66-1		132-136
2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         60-69           2465.         72-1         AMPHI         94-102           2466.         72-1         ANPHI         121-129           2467.         72-1         Antigenic Index         26-30           2468.         72-1         Antigenic Index         32-35           2469.         72-1         Antigenic Index         40-47           2470.         72-1         Antigenic Index         51-64           2471.         72-1         Antigenic Index         95-104           2472.         72-1         Antigenic Index         95-104           2473.         72-1         Antigenic Index         106-108           2474.	2455.	66-1	Antigenic Index	166-169
2457.         66-1         Antigenic Index         212-228           2458.         66-1         Hydrophilicity         8-10           2459.         66-1         Hydrophilicity         132-136           2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         60-69           2465.         72-1         AMPHI         94-102           2466.         72-1         Antigenic Index         26-30           2467.         72-1         Antigenic Index         32-35           2468.         72-1         Antigenic Index         32-35           2469.         72-1         Antigenic Index         51-64           2471.         72-1         Antigenic Index         51-64           2471.         72-1         Antigenic Index         95-104           2472.         72-1         Antigenic Index         106-108           2473.         72-1         Antigenic Index         125-147           2476.	2456.	66-1	Antigenic Index	
2459.       66-1       Hydrophilicity       132-136         2460.       66-1       Hydrophilicity       208-210         2461.       66-1       Hydrophilicity       213-223         2462.       72-1       AMPHI       32-38         2463.       72-1       AMPHI       41-52         2464.       72-1       AMPHI       60-69         2465.       72-1       AMPHI       121-129         2466.       72-1       Antigenic Index       26-30         2467.       72-1       Antigenic Index       32-35         2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       87-89         2472.       72-1       Antigenic Index       95-104         2473.       72-1       Antigenic Index       106-108         2474.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       51-59         2479.       72-1	2457.	66-1	Antigenic Index	212-228
2460.         66-1         Hydrophilicity         208-210           2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         60-69           2465.         72-1         AMPHI         121-129           2466.         72-1         Antigenic Index         26-30           2467.         72-1         Antigenic Index         32-35           2468.         72-1         Antigenic Index         40-47           2470.         72-1         Antigenic Index         51-64           2471.         72-1         Antigenic Index         87-89           2472.         72-1         Antigenic Index         87-89           2473.         72-1         Antigenic Index         95-104           2474.         72-1         Antigenic Index         106-108           2475.         72-1         Antigenic Index         125-147           2476.         72-1         Hydrophilicity         32-35           2477.         72-1         Hydrophilicity         51-59           2479.	2458.	66-1	Hydrophilicity	8-10
2461.         66-1         Hydrophilicity         213-223           2462.         72-1         AMPHI         32-38           2463.         72-1         AMPHI         41-52           2464.         72-1         AMPHI         60-69           2465.         72-1         AMPHI         94-102           2466.         72-1         AMPHI         121-129           2467.         72-1         Antigenic Index         26-30           2468.         72-1         Antigenic Index         32-35           2469.         72-1         Antigenic Index         40-47           2470.         72-1         Antigenic Index         51-64           2471.         72-1         Antigenic Index         87-89           2472.         72-1         Antigenic Index         95-104           2474.         72-1         Antigenic Index         106-108           2475.         72-1         Antigenic Index         125-147           2476.         72-1         Hydrophilicity         32-35           2477.         72-1         Hydrophilicity         51-59           2479.         72-1         Hydrophilicity         51-59           2479.         72-1	2459.	66-1	Hydrophilicity	132-136
2462.       72-1       AMPHI       32-38         2463.       72-1       AMPHI       41-52         2464.       72-1       AMPHI       60-69         2465.       72-1       AMPHI       94-102         2466.       72-1       AMPHI       121-129         2467.       72-1       Antigenic Index       26-30         2468.       72-1       Antigenic Index       32-35         2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       87-89         2472.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       75-81         2480.       72-1       Hydrophilicity       87-89	2460.	66-1	Hydrophilicity	208-210
2463.       72-1       AMPHI       41-52         2464.       72-1       AMPHI       60-69         2465.       72-1       AMPHI       94-102         2466.       72-1       AMPHI       121-129         2467.       72-1       Antigenic Index       26-30         2468.       72-1       Antigenic Index       32-35         2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       73-81         2472.       72-1       Antigenic Index       87-89         2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       75-81         2480.       72-1       Hydrophilicity       87-89	2461.	66-1	Hydrophilicity	213-223
2464.       72-1       AMPHI       60-69         2465.       72-1       AMPHI       94-102         2466.       72-1       AMPHI       121-129         2467.       72-1       Antigenic Index       26-30         2468.       72-1       Antigenic Index       32-35         2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       87-89         2472.       72-1       Antigenic Index       87-89         2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       75-81         2480.       72-1       Hydrophilicity       87-89	2462.	72-1	АМРНІ	32-38
2465.       72-1       AMPHI       94-102         2466.       72-1       AMPHI       121-129         2467.       72-1       Antigenic Index       26-30         2468.       72-1       Antigenic Index       32-35         2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       87-89         2472.       72-1       Antigenic Index       95-104         2473.       72-1       Antigenic Index       106-108         2474.       72-1       Antigenic Index       125-147         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2463.	72-1	АМРНІ	41-52
2466.       72-1       AMPHI       121-129         2467.       72-1       Antigenic Index       26-30         2468.       72-1       Antigenic Index       32-35         2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       87-89         2472.       72-1       Antigenic Index       95-104         2473.       72-1       Antigenic Index       106-108         2474.       72-1       Antigenic Index       125-147         2475.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2464.	72-1	АМРНІ	60-69
2467.       72-1       Antigenic Index       26-30         2468.       72-1       Antigenic Index       32-35         2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       73-81         2472.       72-1       Antigenic Index       87-89         2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2465.	72-1	АМРНІ	94-102
2468.       72-1       Antigenic Index       32-35         2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       73-81         2472.       72-1       Antigenic Index       87-89         2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       51-59         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2466.	72-1	АМРНІ	121-129
2469.       72-1       Antigenic Index       40-47         2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       73-81         2472.       72-1       Antigenic Index       87-89         2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2467.	72-1	Antigenic Index	26-30
2470.       72-1       Antigenic Index       51-64         2471.       72-1       Antigenic Index       73-81         2472.       72-1       Antigenic Index       87-89         2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2468.	72-1	Antigenic Index	32-35
2471.       72-1       Antigenic Index       73-81         2472.       72-1       Antigenic Index       87-89         2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2469.	72-1	Antigenic Index	40-47
2472.       72-1       Antigenic Index       87-89         2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2470.	72-1	Antigenic Index	51-64
2473.       72-1       Antigenic Index       95-104         2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2471.	72-1	Antigenic Index	73-81
2474.       72-1       Antigenic Index       106-108         2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2472.	72-1	Antigenic Index	87-89
2475.       72-1       Antigenic Index       125-147         2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2473.	72-1	Antigenic Index	95-104
2476.       72-1       Hydrophilicity       32-35         2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2474.	72-1	Antigenic Index	106-108
2477.       72-1       Hydrophilicity       40-47         2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2475.	72-1	Antigenic Index	125-147
2478.       72-1       Hydrophilicity       51-59         2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2476.	72-1	Hydrophilicity	32-35
2479.       72-1       Hydrophilicity       61-64         2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2477.	72-1	Hydrophilicity	40-47
2480.       72-1       Hydrophilicity       75-81         2481.       72-1       Hydrophilicity       87-89	2478.	72-1	Hydrophilicity	51-59
2481. 72-1 Hydrophilicity 87-89	2479.	72-1	Hydrophilicity	61-64
	2480.	72-1	Hydrophilicity	75-81
20.10	2481.	72-1	Hydrophilicity	87-89
2482.   72-1   Hydrophilicity   98-104	2482.	72-1	Hydrophilicity	98-104
2483. 72-1 Hydrophilicity 106-108	2483.	72-1	Hydrophilicity	106-108
2484. 72-1 Hydrophilicity 125-133	2484.	72-1	Hydrophilicity	125-133
2485. 72-1 Hydrophilicity 136-147	2485.	72-1	Hydrophilicity	136-147
2486. 73-1 AMPHI 91-95	2486.	73-1	АМРНІ	91-95
2487. 73-1 AMPHI 114-117	2487.	73-1	АМРНІ	114-117
2488. 73-1 Antigenic Index 25-30	2488.	73-1	Antigenic Index	25-30
2489. 73-1 Antigenic Index 60-68	2489.	73-1	Antigenic Index	60-68

2490.	73-1	Antigenic Index	103-105
2491.	73-1	Antigenic Index	110-116
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2495.	73-1	Hydrophilicity	139-142
2496.	73-1	Hydrophilicity	144-161
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2498.	75-1	AMPHI	21-29
2499.	75-1	AMPHI	36-38
2500.	75-1	AMPHI	54-56
2501.	75-1	AMPHI	79-87
2502.	75-1	AMPHI	99-102
2503.	75-1	АМРНІ	106-114
2504.	75-1	АМРНІ	132-134
2505.	75-1	AMPHI	159-166
2506.	75-1	АМРНІ	175-188
2507.	75-1	AMPHI	200-218
2508.	75-1	АМРНІ	245-259
2509.	75-1	AMPHI	263-265
2510.	75-1	AMPHI	267-269
2511.	75-1	Antigenic Index	5-14
2512.	75-1	Antigenic Index	40-52
2513.	75-1	Antigenic Index	67-80
2514.	75-1	Antigenic Index	85-87
2515.	75-1	Antigenic Index	94-101
2516.	75-1	Antigenic Index	104-118
2517.	75-1	Antigenic Index	138-142
2518.	75-1	Antigenic Index	147-160
2519.	75-1	Antigenic Index	175-180
2520.	75-1	Antigenic Index	190-197
2521.	75-1	Antigenic Index	199-205
2522.	75-1	Antigenic Index	209-214
2523.	75-1	Antigenic Index	220-230
2524.	75-1	Antigenic Index	238-252
2525.	75-1	Antigenic Index	261-267
2526.	75-1	Antigenic Index	269-271
2527.	75-1	Antigenic Index	273-281
2528.	75-1	Antigenic Index	288-291
2529.	75-1	Hydrophilicity	5-13
2530.	75-1	Hydrophilicity	40-52
2531.	75-1	Hydrophilicity	67-80
2532.	75-1	Hydrophilicity	95-99
2533.	75-1	Hydrophilicity	105-117

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2534.	75-1	Hydrophilicity	152-160
2535.	75-1	Hydrophilicity	175-177
2536	75-1	Hydrophilicity	190-197
2537.	75-1	Hydrophilicity	199-204
2538.	75-1	Hydrophilicity	220-230
2539.	75-1	Hydrophilicity	238-252
2540.	75-1	Hydrophilicity	261-263
2541.	75-1	Hydrophilicity	265-267
2542.	75-1	Hydrophilicity	269-271
2543.	75-1	Hydrophilicity	273-281
2544.	75-1	Hydrophilicity	288-291
2545.	76-1	АМРНІ	10-16
2546.	76-1	АМРНІ	18-22
2547.	76-1	АМРНІ	33-38
2548.	76-1	АМРНІ	44-49
2549.	76-1	AMPHI	59-73
2550.	76-1	АМРНІ	76-81
2551.	76-1	АМРНІ	100-108
2552.	76-1	AMPHI	115-123
2553.	76-1	АМРНІ	156-160
2554.	76-1	АМРНІ	177-190
2555.	76-1	АМРНІ	196-200
2556.	76-1	АМРНІ	209-217
2557.	76-1	АМРНІ	221-225
2558.	76-1	АМРНІ	227-231
2559.	76-1	Antigenic Index	1-7
2560.	76-1	Antigenic Index	22-30
2561.	76-1	Antigenic Index	41-67
2562.	76-1	Antigenic Index	69-94
2563.	76-1	Antigenic Index	101-119
2564.	76-1	Antigenic Index	121-126
2565.	76-1	Antigenic Index	136-144
2566.	76-1	Antigenic Index	156-168
2567.	76-1	Antigenic Index	176-181
2568.	76-1	Antigenic Index	188-203
2569.	76-1	Antigenic Index	210-220
2570.	76-1	Antigenic Index	222-241
2571.	76-1	Antigenic Index	243-252
2572.	76-1	Hydrophilicity	1-7
2573.	76-1	Hydrophilicity	22-30
2574.	76-1	Hydrophilicity	41-67
2575.	76-1	Hydrophilicity	69-94
2576.	76-1	Hydrophilicity	101-119
2577.	76-1	Hydrophilicity	124-126

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2578.	76-1	Hydrophilicity	136-144
2579.	76-1	Hydrophilicity	156-168
2580.	76-1	Hydrophilicity	189-202
2581.	76-1	Hydrophilicity	210-220
2582.	76-1	Hydrophilicity	222-241
2583.	76-1	Hydrophilicity	243-252
2584.	78-1	АМРНІ	81-105
2585.	78-1	АМРНІ	115-117
2586.	78-1	АМРНІ	131-133
2587.	78-1	АМРНІ	137-139
2588.	78-1	АМРНІ	143-147
2589.	78-1	АМРНІ	170-172
2590.	78-1	Antigenic Index	25-27
2591.	78-1	Antigenic Index	30-35
2592.	78-1	Antigenic Index	46-49
2593.	78-1	Antigenic Index	79-81
2594.	78-1	Antigenic Index	89-106
2595.	78-1	Antigenic Index	115-118
2596.	78-1	Antigenic Index	128-133
2597.	78-1	Antigenic Index	157-160
2598.	78-1	Antigenic Index	194-198
2599.	78-1	Antigenic Index	201-227
2600.	78-1	Hydrophilicity	30-35
2601.	78-1	Hydrophilicity	79-81
2602.	78-1	Hydrophilicity	89-103
2603.	78-1	Hydrophilicity	128-133
2604.	78-1	Hydrophilicity	194-198
2605.	78-1	Hydrophilicity	204-227
2606.	79-1	АМРНІ	6-18
2607.	79-1	АМРНІ	28-32
2608.	79-1	АМРНІ	75-81
2609.	79-1	АМРНІ	84-86
2610.	79-1	AMPHI	92-97
2611.	79-1	АМРНІ	113-116
2612.	79-1	AMPHI	141-144
2613.	79-1	Antigenic Index	1-4
2614.	79-1	Antigenic Index	23-29
2615.	79-1	Antigenic Index	31-37
2616.	79-1	Antigenic Index	45-52
2617.	79-1	Antigenic Index	58-68
2618.	79-1	Antigenic Index	72-87
2619.	79-1	Antigenic Index	89-101
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2620.	79-1	Antigenic Index	109-121

2622.	79-1	Antigenic Index	137-139
2623.	79-1	Antigenic Index	149-156
2624.	79-1	Hydrophilicity	1-4
2625.	79-1	Hydrophilicity	26-29
2626.	79-1	Hydrophilicity	32-37
2627.	79-1	Hydrophilicity	45-52
2628.	79-1	Hydrophilicity	61-68
2629.	79-1	Hydrophilicity	76-85
2630.	79-1	Hydrophilicity	89-99
2631.	79-1	Hydrophilicity	109-121
2632.	79-1	Hydrophilicity	125-131
2632.	79-1	Hydrophilicity	137-139
	79-1	Hydrophilicity	150-156
2634.			36-40
2635. 2636.	82-1 82-1	AMPHI AMPHI	95-111
	82-1	AMPHI	
2637.			117-132
2638. 2639.	82-1	AMPHI	135-137 160-174
	82-1	AMPHI	
2640.	82-1	Ambigania Inday	183-187 2-8
2641.	82-1	Antigenic Index	56-60
2642.	82-1	Antigenic Index	
2643.	82-1	Antigenic Index	90-97
2644.	82-1	Antigenic Index	104-111
2645.	82-1	Antigenic Index	114-137
2646.	82-1	Antigenic Index	141-151
2647.	82-1	Antigenic Index	170-175
2648.	82-1	Antigenic Index	180-188
2649.	82-1	Antigenic Index	194-201 206-209
2650.	82-1	Antigenic Index	216-218
2651.	82-1	Antigenic Index	
2652. 2653.	82-1 82-1	Hydrophilicity	2-8 56-60
		Hydrophilicity Hydrophilicity	90-97
2654.	82-1		105-108
2655.	82-1	Hydrophilicity Hydrophilicity	120-128
2656. 2657.	82-1 82-1	Hydrophilicity	130-134
2657.	82-1	Hydrophilicity	141-151
	82-1	Hydrophilicity	170-175
2659. 2660.	82-1	Hydrophilicity	186-188
2661.	82-1	Hydrophilicity	195-200
		<del></del>	
2662.	82-1	Hydrophilicity	206-209
2663.	83-1	AMPHI	14-21
2664.	83-1	AMPHI	44-47
2665.	83-1	AMPHI	81-83

2666.	83-1	АМРНІ	90-93
2667.	83-1	АМРНІ	114-117
2668.	83-1	AMPHI	123-126
2669.	83-1	AMPHI	128-131
2670.	83-1	AMPHI	134-141
2671.	83-1	AMPHI	168-174
2672.	83-1	AMPHI	180-182
2673.	83-1	AMPHI	199-202
2674.	83-1	AMPHI	230-232
2675.	83-1	AMPHI	257-269
2676.	83-1	AMPHI	274-280
	83-1	AMPHI	
2677.	<del>  </del>		296-298 303-306
2678.	83-1	AMPHI	
2679.	83-1	Antigenic Index	23-32
2680.	83-1	Antigenic Index	34-36
2681.	83-1	Antigenic Index	40-58
2682.	83-1	Antigenic Index	65-79
2683.	83-1	Antigenic Index	82-84
2684.	83-1	Antigenic Index	86-97
2685.	83-1	Antigenic Index	104-114
2686.	83-1	Antigenic Index	132-145
2687.	83-1	Antigenic Index	149-157
2688.	83-1	Antigenic Index	159-167
2689.	83-1	Antigenic Index	184-193
2690.	83-1	Antigenic Index	201-209
2691.	83-1	Antigenic Index	215-222
2692.	83-1	Antigenic Index	227-237
2693.	83-1	Antigenic Index	239-243
2694.	83-1	Antigenic Index	245-250
2695.	83-1	Antigenic Index	257-272
2696.	83-1	Antigenic Index	279-313
2697.	83-1	Hydrophilicity	25-32
2698.	83-1	Hydrophilicity	34-36
2699.	83-1	Hydrophilicity	40-58
2700.	83-1	Hydrophilicity	66-70
2701.	83-1	Hydrophilicity	82-84
2702.	83-1	Hydrophilicity	90-96
2703.	83-1	Hydrophilicity	107-114
2704.	83-1	Hydrophilicity	132-143
2705.	83-1	Hydrophilicity	151-155
2706.	83-1	Hydrophilicity	161-166
2707.	83-1	Hydrophilicity	187-190
2708.	83-1	Hydrophilicity	203-208
2709.	83-1	Hydrophilicity	215-222

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2710.	83-1	Hydrophilicity	227-237
2711.	83-1	Hydrophilicity	260-272
2712.	83-1	Hydrophilicity	285-313
2713.	84-1	AMPHI	15-22
2714.	84-1	АМРНІ	41-47
2715.	84-1	АМРНІ	51-53
2716.	84-1	АМРНІ	59-67
2717.	84-1	AMPHI	72-85
2718.	84-1	АМРНІ	104-108
2719.	84-1	AMPHI	111-114
2720.	84-1	АМРНІ	128-133
2721.	84-1	АМРНІ	138-140
2722.	84-1	АМРНІ	156-158
2723	84-1	АМРНІ	166-170
2724.	84-1	AMPHI	175-180
2725.	84-1	AMPHI	185-190
2726.	84-1	АМРНІ	195-201
2727.	84-1	AMPHI	226-230
2728.	84-1	АМРНІ	283-299
2729.	84-1	AMPHI	317-322
2730.	84-1	AMPHI	327-330
2731.	84-1	АМРНІ	348-353
2732.	84-1	АМРНІ	366-368
2733.	84-1	АМРНІ	373-375
2734.	84-1	АМРНІ	380-387
2735.	84-1	Antigenic Index	9-18
2736.	84-1	Antigenic Index	24-42
2737.	84-1	Antigenic Index	45-48
2738.	84-1	Antigenic Index	54-70
2739.	84-1	Antigenic Index	76-85
2740.	84-1	Antigenic Index	91-95
2741.	84-1	Antigenic Index	97-109
2742.	84-1	Antigenic Index	114-120
2743.	84-1	Antigenic Index	128-137
2744.	84-1	Antigenic Index	139-141
2745.	84-1	Antigenic Index	148-154
2746.	84-1	Antigenic Index	162-170
2747.	84-1	Antigenic Index	181-187
2748.	84-1	Antigenic Index	190-193
2749.	84-1	Antigenic Index	198-205
2750.	84-1	Antigenic Index	226-247
2751.	84-1	Antigenic Index	249-265
2752.	84-1	Antigenic Index	274-286
2753.	84-1	Antigenic Index	288-291

2754.	84-1	Antigenic Index	300-307
2755.	84-1	Antigenic Index	313-321
2756.	84-1	Antigenic Index	324-360
2757.	84-1	Antigenic Index	363-371
2758.	84-1	Antigenic Index	373-387
2759.	84-1	Hydrophilicity	12-18
2760.	84-1	Hydrophilicity	24-42
2761.	84-1	Hydrophilicity	45-48
2762.	84-1	Hydrophilicity	54-70
2763.	84-1	Hydrophilicity	76-83
2764.	84-1	Hydrophilicity	91-95
2765.	84-1	Hydrophilicity	101-108
2766.	84-1	Hydrophilicity	131-137
2767.	84-1	Hydrophilicity	139-141
2768.	84-1	Hydrophilicity	151-154
2769.	84-1	Hydrophilicity	162-170
2770.	84-1	Hydrophilicity	181-187
2771.	84-1	Hydrophilicity	190-193
2772.	84-1	Hydrophilicity	198-204
2773.	84-1	Hydrophilicity	230-247
2774.	84-1	Hydrophilicity	251-261
2775.	84-1	Hydrophilicity	274-282
2776.	84-1	Hydrophilicity	288-291
2777.	84-1	Hydrophilicity	301-306
2778.	84-1	Hydrophilicity	316-321
2779.	84-1	Hydrophilicity	327-330
2780.	84-1	Hydrophilicity	337-349
2780.	84-1	Hydrophilicity	351-359
2782.	84-1	Hydrophilicity	364-368
2782.	84-1	Hydrophilicity	374-383
2784.	85-1	AMPHI	20-23
2784.	85-1	AMPHI	28-31
2786.	85-1	AMPHI	33-35
		AMPHI	66-70
2787.	85-1		86-90
2788.	85-1	AMPHI	
2789.	85-1	AMPHI	100-105
2790.	85-1	AMPHI	126-128
2791.	85-1	AMPHI	134-136
2792.	85-1	AMPHI	144-148
2793.	85-1	AMPHI	152-157
2794.	85-1	AMPHI	173-175
2795.	85-1	AMPHI	199-201
2796.	85-1	AMPHI	206-208
2797.	85-1	AMPHI	215-217

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2798.	85-1	AMPHI	219-221
2799.	85-1	AMPHI	253-255
2800.	85-1	AMPHI	273-276
2801.	85-1	AMPHI	283-287
2802.	85-1	АМРНІ	303-307
2803.	85-1	AMPHI	312-315
2804.	85-1	AMPHI	320-326
2805.	85-1	Antigenic Index	7-10
2806.	85-1	Antigenic Index	20-29
2807.	85-1	Antigenic Index	32-51
2808.	85-1	Antigenic Index	63-71
2809.	85-1	Antigenic Index	76-89
2810.	85-1	Antigenic Index	98-101
2811.	85-1	Antigenic Index	104-111
2812.	85-1	Antigenic Index	115-121
2813.	85-1	Antigenic Index	127-131
2814.	85-1	Antigenic Index	138-143
2815.	85-1	Antigenic Index	147-150
2816.	85-1	Antigenic Index	167-182
2817.	85-1	Antigenic Index	187-205
2818.	85-1	Antigenic Index	211-221
2819.	85-1	Antigenic Index	232-240
2820.	85-1	Antigenic Index	243-255
2821.	85-1	Antigenic Index	264-273
2822.	85-1	Antigenic Index	277-311
2823.	85-1	Antigenic Index	316-334
2824.	85-1	Hydrophilicity	20-29
2825.	85-1	Hydrophilicity	40-51
2826.	85-1	Hydrophilicity	63-71
2827.	85-1	Hydrophilicity	77-89
2828.	85-1	Hydrophilicity	98-101
2829.	85-1	Hydrophilicity	104-111
2830.	85-1	Hydrophilicity	115-121
2831.	85-1	Hydrophilicity	138-143
2832.	85-1	Hydrophilicity	167-180
2833.	85-1	Hydrophilicity	188-202
2834.	85-1	Hydrophilicity	215-221
2835.	85-1	Hydrophilicity	235-239
2836.	85-1	Hydrophilicity	249-255
2837.	85-1	Hydrophilicity	265-273
2838.	85-1	Hydrophilicity	277-311
2839.	85-1	Hydrophilicity	316-334
2840.	88-1	AMPHI	15-21
2841.	88-1	АМРНІ	28-41
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2842.	88-1	AMPHI	55-73
2843.	88-1	АМРНІ	100-109
2844.	88-1	АМРНІ	115-117
2845.	88-1	АМРНІ	132-138
2846.	88-1	АМРНІ	163-167
2847.	88-1	АМРНІ	265-267
2848.	88-1	АМРНІ	271-276
2849.	88-1	АМРНІ	288-292
2850.	88-1	АМРНІ	313-316
2851.	88-1	АМРНІ	327-330
2852.	88-1	АМРНІ	339-342
2853.	88-1	АМРНІ	357-360
2854.	88-1	АМРНІ	365-371
2855.	88-1	АМРНІ	376-387
2856.	88-1	AMPHI	391-396
2857.	88-1	АМРНІ	443-445
2858.	88-1	АМРНІ	463-465
2859.	88-1	АМРНІ	478-480
2860.	88-1	АМРНІ	498-501
2861.	88-1	АМРНІ	509-512
2862.	88-1	АМРНІ	524-527
2863.	88-1	АМРНІ	529-548
2864.	88-1	АМРНІ	551-553
2865.	88-1	АМРНІ	566-577
2866.	88-1	АМРНІ	586-590
2867.	88-1	AMPHI	597-601
2868.	88-1	АМРНІ	650-670
2869.	88-1	Antigenic Index	1-11
2870.	88-1	Antigenic Index	43-51
2871.	88-1	Antigenic Index	96-116
2872.	88-1	Antigenic Index	119-124
2873.	88-1	Antigenic Index	127-138
2874.	88-1	Antigenic Index	142-154
2875.	88-1	Antigenic Index	158-166
2876.	88-1	Antigenic Index	182-185
2877.	88-1	Antigenic Index	199-204
2878.	88-1	Antigenic Index	209-215
2879.	88-1	Antigenic Index	224-236
2880.	88-1	Antigenic Index	243-246
2881.	88-1	Antigenic Index	252-254
2882.	88-1	Antigenic Index	256-262
2883.	88-1	Antigenic Index	267-294
2884.	88-1	Antigenic Index	296-299
2885.	88-1	Antigenic Index	311-319

2886.	88-1	Antigenic Index	324-334
2887.	88-1	Antigenic Index	347-356
2888.	88-1	Antigenic Index	363-396
2889.	88-1	Antigenic Index	404-411
2890.	88-1	Antigenic Index	413-418
2891.	88-1	Antigenic Index	424-427
2892.	88-1	Antigenic Index	432-440
2893.	88-1	Antigenic Index	448-455
2894.	88-1	Antigenic Index	463-488
2895.	88-1	Antigenic Index	504-508
2896.	88-1	Antigenic Index	516-528
2897.	88-1	Antigenic Index	540-560
2898.	88-1	Antigenic Index	574-577
2899.	88-1	Antigenic Index	585-603
2900.	88-1	Antigenic Index	623-628
2900.	88-1	Antigenic Index  Antigenic Index	631-637
2901.	88-1	Antigenic Index  Antigenic Index	642-671
2902.	88-1	Hydrophilicity	1-8
2904.	88-1	Hydrophilicity	46-48
2904.	88-1	Hydrophilicity	101-116
2906.	88-1	Hydrophilicity	127-138
2907.	88-1	Hydrophilicity	146-153
2907.	88-1	Hydrophilicity	158-163
2908.	88-1	Hydrophilicity	199-201
2910.	88-1	Hydrophilicity	209-215
2910.	88-1	Hydrophilicity	228-236
2911.	88-1	Hydrophilicity	252-254
2912.	88-1	Hydrophilicity	256-262
2913.	88-1	Hydrophilicity	270-294
2914.		Hydrophilicity	313-316
	88-1	Hydrophilicity	
2916.	88-1		327-334
2917.	88-1	Hydrophilicity	347-356
2918.	88-1	Hydrophilicity	363-378
2919.	88-1	Hydrophilicity	380-395
2920.	88-1	Hydrophilicity	404-411
2921.	88-1	Hydrophilicity	434-438
2922.	88-1	Hydrophilicity	448-455
2923.	88-1	Hydrophilicity	463-488
2924.	88-1	Hydrophilicity	517-526
2925.	88-1	Hydrophilicity	540-546
2926.	88-1	Hydrophilicity	553-560
2927.	88-1	Hydrophilicity	586-594
2928.	88-1	Hydrophilicity	599-601
2929.	88-1	Hydrophilicity	623-628

2930.	88-1	Hydrophilicity	633-637
2931.	88-1	Hydrophilicity	643-671
2932.	89-1	AMPHI	12-15
2933.	89-1	AMPHI	20-31
2934.	89-1	AMPHI	36-38
2935.	89-1	AMPHI	40-44
2936.	89-1	AMPHI	47-58
2937.	89-1	AMPHI	108-116
2938.	89-1	AMPHI	123-125
2939.	89-1	AMPHI	127-132
2940.	89-1	AMPHI	145-150
2941.	89-1	Antigenic Index	2-10
2942.	89-1	Antigenic Index	37-46
2943.	89-1	Antigenic Index	55-57
2944.	89-1	Antigenic Index	60-76
2945.	89-1	Antigenic Index	82-95
2946.	89-1	Antigenic Index	99-108
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3152.   102-1   Antigenic Index   106-118     3154.   102-1   Hydrophilicity   35-45     3155.   102-1   Hydrophilicity   106-109     3156.   103-1   AMPHI   10-13     3157.   103-1   AMPHI   17-29     3158.   103-1   AMPHI   38-40     3159.   103-1   AMPHI   53-58     3160.   103-1   AMPHI   76-85     3161.   103-1   AMPHI   19-125     3162.   103-1   AMPHI   19-125     3163.   103-1   AMPHI   176-185     3164.   103-1   AMPHI   176-185     3165.   103-1   AMPHI   176-185     3166.   103-1   AMPHI   196-205     3166.   103-1   AMPHI   196-205     3167.   103-1   Antigenic Index   1-3     3168.   103-1   Antigenic Index   18-20     3169.   103-1   Antigenic Index   37-40     3170.   103-1   Antigenic Index   37-40     3171.   103-1   Antigenic Index   107-116     3172.   103-1   Antigenic Index   107-116     3173.   103-1   Antigenic Index   128-132     3174.   103-1   Antigenic Index   128-132     3175.   103-1   Antigenic Index   128-132     3176.   103-1   Antigenic Index   107-116     3177.   103-1   Antigenic Index   107-116     3178.   103-1   Antigenic Index   107-116     3179.   103-1   Antigenic Index   119-200     3179.   103-1   Antigenic Index   191-200     3179.   103-1   Hydrophilicity   107-113     3179.   103-1   Hydrophilicity   107-113     3180.   104-1   AMPHI   15-19     3181.   104-1   AMPHI   15-19     3182.   104-1   AMPHI   193-96     3183.   104-1   AMPHI   206-215     3184.   104-1   AMPHI   232-234     3185.   104-1   AMPHI   232-249     3187.   104-1   AMPHI   231-266     3188.   104-1   Antigenic Index   58-69     3190.   104-1   Antigenic Index   59-100     3190.   104-1   Antigenic Index   120-126	3150.	102-1	Antigenic Index	47-49
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13157.   103-1   AMPHI   17-29   3158.   103-1   AMPHI   38-40   3159.   103-1   AMPHI   53-58   3160.   103-1   AMPHI   62-69   3161.   103-1   AMPHI   76-85   3162.   103-1   AMPHI   99-125   3163.   103-1   AMPHI   131-137   3164.   103-1   AMPHI   176-185   3165.   103-1   AMPHI   176-185   3165.   103-1   AMPHI   196-205   3166.   103-1   AMPHI   196-205   3166.   103-1   Antigenic Index   1-3   3164.   103-1   Antigenic Index   1-3   3168.   103-1   Antigenic Index   37-40   3169.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   37-40   3171.   103-1   Antigenic Index   37-79   3172.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   146-148   3175.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3179.   103-1   Antigenic Index   191-200   3179.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   107-113   3180.   104-1   AMPHI   29-37   3181.   104-1   AMPHI   29-37   3182.   104-1   AMPHI   23-32-334   3184.   104-1   AMPHI   23-32-334   3185.   104-1   AMPHI   23-32-334   3186.   104-1   AMPHI   23-32-334   3187.   104-1   AMPHI   23-32-334   3188.   104-1   AMPHI   23-32-334   3189.   104-1   AMPHI   23-32-234   3189.   104-1   AMPHI   23-32-	3155	102-1	Hydrophilicity	106-109
3158.   103-1   AMPHI   38-40   3159.   103-1   AMPHI   53-58   3160.   103-1   AMPHI   62-69   3161.   103-1   AMPHI   76-85   3162.   103-1   AMPHI   99-125   3163.   103-1   AMPHI   131-137   3164.   103-1   AMPHI   176-185   3165.   103-1   AMPHI   196-205   3166.   103-1   AMPHI   196-205   3166.   103-1   Antigenic Index   1-3   3167.   103-1   Antigenic Index   18-20   3168.   103-1   Antigenic Index   26-28   3169.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   37-40   3171.   103-1   Antigenic Index   73-79   3172.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   146-148   3175.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3178.   103-1   Antigenic Index   191-200   3179.   103-1   Hydrophilicity   75-78   3178.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   107-113   3180.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   15-19   3182.   104-1   AMPHI   147-156   3184.   104-1   AMPHI   29-37   3185.   104-1   AMPHI   232-234   3186.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3188.   104-1   AMPHI   236-249   3189.   104-1   AMPHI   236-249   3189.   104-1   AMPHI   251-266   3189.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   145-152	3156.	103-1	AMPHI	10-13
3159.   103-1   AMPHI   53-58   3160.   103-1   AMPHI   62-69   3161.   103-1   AMPHI   76-85   3162.   103-1   AMPHI   99-125   3163.   103-1   AMPHI   131-137   3164.   103-1   AMPHI   176-185   3165.   103-1   AMPHI   196-205   3166.   103-1   AMPHI   196-205   3166.   103-1   Antigenic Index   1-3   3167.   103-1   Antigenic Index   26-28   3169.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   50-56   3171.   103-1   Antigenic Index   73-79   3172.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   146-148   3175.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3178.   103-1   Antigenic Index   191-200   3178.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   194-197   3180.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   193-96   3183.   104-1   AMPHI   193-96   3184.   104-1   AMPHI   206-215   3185.   104-1   AMPHI   232-234   3186.   104-1   AMPHI   232-234   3187.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   251-266   3188.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   145-152   3192	3157	103-1	AMPHI	17-29
3160.   103-1   AMPHI   62-69   3161.   103-1   AMPHI   76-85   3162.   103-1   AMPHI   99-125   3163.   103-1   AMPHI   131-137   3164.   103-1   AMPHI   176-185   3165.   103-1   AMPHI   196-205   3166.   103-1   Antigenic Index   1-3   3167.   103-1   Antigenic Index   26-28   3169.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   37-70   3172.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   107-116   3174.   103-1   Antigenic Index   146-148   3175.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   191-200   3177.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   107-113   3180.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   29-37   3182.   104-1   AMPHI   29-37   3183.   104-1   AMPHI   29-37   3184.   104-1   AMPHI   232-234   3185.   104-1   AMPHI   232-234   3186.   104-1   AMPHI   232-234   3187.   104-1   AMPHI   232-234   3188.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   251-266   3188.   104-1   Amtigenic Index   58-69   3190.   104-1   Antigenic Index   145-152	3158.	103-1	AMPHI	38-40
3161.   103-1   AMPHI   76-85   3162.   103-1   AMPHI   99-125   3163.   103-1   AMPHI   131-137   3164.   103-1   AMPHI   176-185   3165.   103-1   AMPHI   196-205   3166.   103-1   Antigenic Index   1-3   3167.   103-1   Antigenic Index   18-20   3168.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   37-79   3172.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   146-148   3175.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3179.   103-1   Hydrophilicity   75-78   3178.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   107-113   3180.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   29-37   3181.   104-1   AMPHI   29-37   3182.   104-1   AMPHI   232-234   3185.   104-1   AMPHI   232-234   3185.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3188.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3188.   104-1   AMPHI   251-266   3189.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   98-100   3191.   104-1   Antigenic Index   98-100   3191.   104-1   Antigenic Index   120-126   3192.   104-1   Antigenic Index   145-152	3159.	103-1	AMPHI	53-58
3162.   103-1   AMPHI   99-125   3163.   103-1   AMPHI   131-137   3164.   103-1   AMPHI   176-185   3165.   103-1   AMPHI   196-205   3166.   103-1   Antigenic Index   1-3   3167.   103-1   Antigenic Index   18-20   3168.   103-1   Antigenic Index   37-40   3169.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   50-56   3171.   103-1   Antigenic Index   73-79   3172.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   146-148   3175.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3178.   103-1   Hydrophilicity   75-78   3178.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   194-197   3180.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   193-96   3183.   104-1   AMPHI   29-37   3185.   104-1   AMPHI   232-234   3185.   104-1   AMPHI   232-234   3186.   104-1   AMPHI   232-234   3187.   104-1   AMPHI   232-234   3188.   104-1   AMPHI   236-249   3187.   104-1   AMPHI   236-249   3188.   104-1   Antigenic Index   1-6   3189.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   120-126   3192.   104-1   Antigenic Index   145-152	3160.	103-1	AMPHI	62-69
3163.   103-1   AMPHI   131-137   3164.   103-1   AMPHI   176-185   3165.   103-1   AMPHI   196-205   3166.   103-1   Antigenic Index   1-3   3167.   103-1   Antigenic Index   18-20   3168.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   50-56   3171.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   146-148   3175.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3177.   103-1   Hydrophilicity   75-78   3178.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   107-113   3180.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   29-37   3182.   104-1   AMPHI   29-37   3183.   104-1   AMPHI   29-37   3184.   104-1   AMPHI   23-234   3185.   104-1   AMPHI   23-234   3186.   104-1   AMPHI   23-234   3186.   104-1   AMPHI   23-234   3187.   104-1   AMPHI   23-249   3188.   104-1   AMPHI   23-249   3189.   104-1   AMPHI   251-266   3189.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   120-126   3192.   104-1   Antigenic Index   145-152	3161.	103-1	AMPHI	76-85
3164.       103-1       AMPHI       176-185         3165.       103-1       AMPHI       196-205         3166.       103-1       Antigenic Index       1-3         3167.       103-1       Antigenic Index       26-28         3168.       103-1       Antigenic Index       37-40         3170.       103-1       Antigenic Index       50-56         3171.       103-1       Antigenic Index       73-79         3172.       103-1       Antigenic Index       107-116         3173.       103-1       Antigenic Index       128-132         3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       232-234         3185.	3162.	103-1	АМРНІ	99-125
3165.   103-1   AMPHI   196-205   3166.   103-1   Antigenic Index   1-3   3167.   103-1   Antigenic Index   18-20   3168.   103-1   Antigenic Index   37-40   3170.   103-1   Antigenic Index   50-56   3171.   103-1   Antigenic Index   107-116   3172.   103-1   Antigenic Index   107-116   3173.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   128-132   3174.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   161-165   3176.   103-1   Antigenic Index   191-200   3177.   103-1   Antigenic Index   191-200   3178.   103-1   Hydrophilicity   75-78   3178.   103-1   Hydrophilicity   107-113   3179.   103-1   Hydrophilicity   194-197   3180.   104-1   AMPHI   15-19   3181.   104-1   AMPHI   29-37   3182.   104-1   AMPHI   29-37   3183.   104-1   AMPHI   29-37   3184.   104-1   AMPHI   232-234   3185.   104-1   AMPHI   232-234   3185.   104-1   AMPHI   232-234   3186.   104-1   AMPHI   232-234   3186.   104-1   AMPHI   232-234   3186.   104-1   AMPHI   251-266   3187.   104-1   AMPHI   251-266   3188.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   58-69   3190.   104-1   Antigenic Index   120-126   3192.   104-1   Antigenic Index   145-152	3163.	103-1	AMPHI	131-137
3166.       103-1       Antigenic Index       1-3         3167.       103-1       Antigenic Index       18-20         3168.       103-1       Antigenic Index       26-28         3169.       103-1       Antigenic Index       37-40         3170.       103-1       Antigenic Index       50-56         3171.       103-1       Antigenic Index       107-116         3172.       103-1       Antigenic Index       107-116         3173.       103-1       Antigenic Index       128-132         3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       232-234         3184. <td>3164.</td> <td>103-1</td> <td>AMPHI</td> <td>176-185</td>	3164.	103-1	AMPHI	176-185
3167.       103-1       Antigenic Index       18-20         3168.       103-1       Antigenic Index       26-28         3169.       103-1       Antigenic Index       37-40         3170.       103-1       Antigenic Index       50-56         3171.       103-1       Antigenic Index       107-116         3172.       103-1       Antigenic Index       107-116         3173.       103-1       Antigenic Index       128-132         3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       232-234         3184.       104-1       AMPHI       232-234         3185.	3165.	103-1	AMPHI	196-205
3168.       103-1       Antigenic Index       26-28         3169.       103-1       Antigenic Index       37-40         3170.       103-1       Antigenic Index       50-56         3171.       103-1       Antigenic Index       73-79         3172.       103-1       Antigenic Index       107-116         3173.       103-1       Antigenic Index       128-132         3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       232-234         3184.       104-1       AMPHI       232-234         3185.       104-1       AMPHI       236-249         3187.       104	3166.	103-1	Antigenic Index	1-3
3168.         103-1         Antigenic Index         26-28           3169.         103-1         Antigenic Index         37-40           3170.         103-1         Antigenic Index         50-56           3171.         103-1         Antigenic Index         107-116           3172.         103-1         Antigenic Index         128-132           3174.         103-1         Antigenic Index         146-148           3175.         103-1         Antigenic Index         161-165           3176.         103-1         Antigenic Index         191-200           3177.         103-1         Hydrophilicity         75-78           3178.         103-1         Hydrophilicity         107-113           3179.         103-1         Hydrophilicity         194-197           3180.         104-1         AMPHI         15-19           3181.         104-1         AMPHI         29-37           3182.         104-1         AMPHI         93-96           3183.         104-1         AMPHI         232-234           3184.         104-1         AMPHI         232-234           3185.         104-1         AMPHI         251-266           3188. <td>3167.</td> <td>103-1</td> <td>Antigenic Index</td> <td>18-20</td>	3167.	103-1	Antigenic Index	18-20
3170.       103-1       Antigenic Index       50-56         3171.       103-1       Antigenic Index       73-79         3172.       103-1       Antigenic Index       107-116         3173.       103-1       Antigenic Index       128-132         3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       236-249         3185.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1	3168.	103-1	Antigenic Index	26-28
3171.       103-1       Antigenic Index       73-79         3172.       103-1       Antigenic Index       107-116         3173.       103-1       Antigenic Index       128-132         3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       232-234         3185.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1	3169.	103-1	Antigenic Index	37-40
3172.       103-1       Antigenic Index       107-116         3173.       103-1       Antigenic Index       128-132         3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       98-100         3191.       104-1 <td< td=""><td>3170.</td><td>103-1</td><td>Antigenic Index</td><td>50-56</td></td<>	3170.	103-1	Antigenic Index	50-56
3173.       103-1       Antigenic Index       128-132         3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       <	3171.	103-1	Antigenic Index	73-79
3174.       103-1       Antigenic Index       146-148         3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       206-215         3184.       104-1       AMPHI       232-234         3185.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3172.	103-1	Antigenic Index	107-116
3175.       103-1       Antigenic Index       161-165         3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3173.	103-1	Antigenic Index	128-132
3176.       103-1       Antigenic Index       191-200         3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       98-100         3190.       104-1       Antigenic Index       120-126         3191.       104-1       Antigenic Index       145-152	3174.	103-1	Antigenic Index	146-148
3177.       103-1       Hydrophilicity       75-78         3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3175.	103-1	Antigenic Index	161-165
3178.       103-1       Hydrophilicity       107-113         3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3176.	103-1	Antigenic Index	191-200
3179.       103-1       Hydrophilicity       194-197         3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3177.	103-1	Hydrophilicity	75-78
3180.       104-1       AMPHI       15-19         3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3178.	103-1	Hydrophilicity	107-113
3181.       104-1       AMPHI       29-37         3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3179.	103-1	Hydrophilicity	194-197
3182.       104-1       AMPHI       93-96         3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3180.	104-1	AMPHI	15-19
3183.       104-1       AMPHI       147-156         3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	<u>31</u> 81.	104-1	АМРНІ	29-37
3184.       104-1       AMPHI       206-215         3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3182.	104-1	AMPHI	93-96
3185.       104-1       AMPHI       232-234         3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3183.	104-1	АМРНІ	147-156
3186.       104-1       AMPHI       236-249         3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3184.	104-1	АМРНІ	206-215
3187.       104-1       AMPHI       251-266         3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3185.	104-1	AMPHI	232-234
3188.       104-1       Antigenic Index       1-6         3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3186.	104-1	AMPHI	236-249
3189.       104-1       Antigenic Index       58-69         3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3187.	104-1	AMPHI	251-266
3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3188.	104-1	Antigenic Index	1-6
3190.       104-1       Antigenic Index       98-100         3191.       104-1       Antigenic Index       120-126         3192.       104-1       Antigenic Index       145-152	3189.	104-1	Antigenic Index	58-69
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3241.         105-1         Hydrophilicity         207-211           3242.         105-1         Hydrophilicity         232-243           3243.         106-1         AMPHI         23-27           3244.         106-1         AMPHI         41-45           3245.         106-1         AMPHI         138-145           3246.         106-1         AMPHI         168-175           3248.         106-1         Antigenic Index         7-13           3249.         106-1         Antigenic Index         29-68           3250.         106-1         Antigenic Index         93-102           3251.         106-1         Antigenic Index         108-115           3252.         106-1         Antigenic Index         120-131           3253.         106-1         Antigenic Index         120-131           3254.         106-1         Antigenic Index         144-160           3254.         106-1         Antigenic Index         179-191           3255.         106-1         Antigenic Index         196-198           3257.         106-1         Antigenic Index         196-198           3257.         106-1         Hydrophilicity         22-58				
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3243.         106-1         AMPHI         23-27           3244.         106-1         AMPHI         41-45           3245.         106-1         AMPHI         52-64           3246.         106-1         AMPHI         138-145           3247.         106-1         AMPHI         168-175           3248.         106-1         Antigenic Index         7-13           3249.         106-1         Antigenic Index         29-68           3250.         106-1         Antigenic Index         93-102           3251.         106-1         Antigenic Index         108-115           3252.         106-1         Antigenic Index         120-131           3253.         106-1         Antigenic Index         120-131           3254.         106-1         Antigenic Index         144-160           3254.         106-1         Antigenic Index         179-191           3255.         106-1         Antigenic Index         196-198           3257.         106-1         Hydrophilicity         29-42           3258.         106-1         Hydrophilicity         52-58           3259.         106-1         Hydrophilicity         94-102           32				232-243
3244.         106-1         AMPHI         41-45           3245.         106-1         AMPHI         52-64           3246.         106-1         AMPHI         138-145           3247.         106-1         AMPHI         168-175           3248.         106-1         Antigenic Index         7-13           3249.         106-1         Antigenic Index         29-68           3250.         106-1         Antigenic Index         93-102           3251.         106-1         Antigenic Index         108-115           3252.         106-1         Antigenic Index         120-131           3253.         106-1         Antigenic Index         144-160           3254.         106-1         Antigenic Index         165-174           3255.         106-1         Antigenic Index         179-191           3256.         106-1         Antigenic Index         196-198           3257.         106-1         Hydrophilicity         29-42           3258.         106-1         Hydrophilicity         52-58           3259.         106-1         Hydrophilicity         94-102           3261.         106-1         Hydrophilicity         111-115				
3245.         106-1         AMPHI         52-64           3246.         106-1         AMPHI         138-145           3247.         106-1         AMPHI         168-175           3248.         106-1         Antigenic Index         7-13           3249.         106-1         Antigenic Index         29-68           3250.         106-1         Antigenic Index         93-102           3251.         106-1         Antigenic Index         108-115           3252.         106-1         Antigenic Index         120-131           3253.         106-1         Antigenic Index         144-160           3254.         106-1         Antigenic Index         165-174           3255.         106-1         Antigenic Index         179-191           3256.         106-1         Antigenic Index         196-198           3257.         106-1         Hydrophilicity         29-42           3258.         106-1         Hydrophilicity         52-58           3259.         106-1         Hydrophilicity         94-102           3261.         106-1         Hydrophilicity         111-115           3262.         106-1         Hydrophilicity         122-131				41-45
3246.         106-1         AMPHI         138-145           3247.         106-1         AMPHI         168-175           3248.         106-1         Antigenic Index         7-13           3249.         106-1         Antigenic Index         29-68           3250.         106-1         Antigenic Index         108-115           3251.         106-1         Antigenic Index         120-131           3252.         106-1         Antigenic Index         144-160           3253.         106-1         Antigenic Index         165-174           3254.         106-1         Antigenic Index         179-191           3255.         106-1         Antigenic Index         196-198           3255.         106-1         Antigenic Index         196-198           3257.         106-1         Hydrophilicity         29-42           3258.         106-1         Hydrophilicity         52-58           3259.         106-1         Hydrophilicity         94-102           3261.         106-1         Hydrophilicity         111-115           3262.         106-1         Hydrophilicity         112-131           3263.         106-1         Hydrophilicity         147-149			АМРНІ	52-64
3248.       106-1       Antigenic Index       7-13         3249.       106-1       Antigenic Index       29-68         3250.       106-1       Antigenic Index       93-102         3251.       106-1       Antigenic Index       108-115         3252.       106-1       Antigenic Index       120-131         3253.       106-1       Antigenic Index       144-160         3254.       106-1       Antigenic Index       165-174         3255.       106-1       Antigenic Index       179-191         3256.       106-1       Antigenic Index       196-198         3257.       106-1       Hydrophilicity       29-42         3258.       106-1       Hydrophilicity       52-58         3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       94-102         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       187-189 </td <td></td> <td>106-1</td> <td>АМРНІ</td> <td>138-145</td>		106-1	АМРНІ	138-145
3248.       106-1       Antigenic Index       7-13         3249.       106-1       Antigenic Index       29-68         3250.       106-1       Antigenic Index       93-102         3251.       106-1       Antigenic Index       108-115         3252.       106-1       Antigenic Index       120-131         3253.       106-1       Antigenic Index       144-160         3254.       106-1       Antigenic Index       165-174         3255.       106-1       Antigenic Index       179-191         3256.       106-1       Antigenic Index       196-198         3257.       106-1       Hydrophilicity       29-42         3258.       106-1       Hydrophilicity       52-58         3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       94-102         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       187-189 </td <td>3247.</td> <td>106-1</td> <td>АМРНІ</td> <td>168-175</td>	3247.	106-1	АМРНІ	168-175
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3250.       106-1       Antigenic Index       93-102         3251.       106-1       Antigenic Index       108-115         3252.       106-1       Antigenic Index       120-131         3253.       106-1       Antigenic Index       144-160         3254.       106-1       Antigenic Index       165-174         3255.       106-1       Antigenic Index       179-191         3256.       106-1       Antigenic Index       196-198         3257.       106-1       Hydrophilicity       29-42         3258.       106-1       Hydrophilicity       52-58         3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       94-102         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       168-171         3266.       106-1       Hydrophilicity       187-189         3267.       108-1       AMPHI       21-37	3249.	106-1	Antigenic Index	29-68
3252.       106-1       Antigenic Index       120-131         3253.       106-1       Antigenic Index       144-160         3254.       106-1       Antigenic Index       165-174         3255.       106-1       Antigenic Index       179-191         3256.       106-1       Antigenic Index       196-198         3257.       106-1       Hydrophilicity       29-42         3258.       106-1       Hydrophilicity       52-58         3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       94-102         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       168-171         3266.       106-1       Hydrophilicity       187-189         3267.       108-1       AMPHI       21-37         3269.       108-1       AMPHI       46-49         3270.       108-1       AMPHI       79-93 <t< td=""><td>3250.</td><td>106-1</td><td>Antigenic Index</td><td>93-102</td></t<>	3250.	106-1	Antigenic Index	93-102
3253.       106-1       Antigenic Index       144-160         3254.       106-1       Antigenic Index       165-174         3255.       106-1       Antigenic Index       179-191         3256.       106-1       Antigenic Index       196-198         3257.       106-1       Hydrophilicity       29-42         3258.       106-1       Hydrophilicity       52-58         3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       111-115         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       168-171         3266.       106-1       Hydrophilicity       187-189         3267.       108-1       AMPHI       6-8         3268.       108-1       AMPHI       46-49         3270.       108-1       AMPHI       72-75         3271.       108-1       AMPHI       119-135         3273. <td>3251.</td> <td>106-1</td> <td>Antigenic Index</td> <td>108-115</td>	3251.	106-1	Antigenic Index	108-115
3253.       106-1       Antigenic Index       144-160         3254.       106-1       Antigenic Index       165-174         3255.       106-1       Antigenic Index       179-191         3256.       106-1       Antigenic Index       196-198         3257.       106-1       Hydrophilicity       29-42         3258.       106-1       Hydrophilicity       52-58         3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       111-115         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       168-171         3266.       106-1       Hydrophilicity       187-189         3267.       108-1       AMPHI       6-8         3268.       108-1       AMPHI       46-49         3270.       108-1       AMPHI       72-75         3271.       108-1       AMPHI       119-135         3273. <td></td> <td></td> <td></td> <td></td>				
3255.       106-1       Antigenic Index       179-191         3256.       106-1       Antigenic Index       196-198         3257.       106-1       Hydrophilicity       29-42         3258.       106-1       Hydrophilicity       52-58         3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       94-102         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       168-171         3266.       106-1       Hydrophilicity       187-189         3267.       108-1       AMPHI       6-8         3268.       108-1       AMPHI       21-37         3269.       108-1       AMPHI       72-75         3271.       108-1       AMPHI       79-93         3272.       108-1       AMPHI       119-135         3273.       108-1       AMPHI       137-140	3253.	106-1	Antigenic Index	144-160
3256.       106-1       Antigenic Index       196-198         3257.       106-1       Hydrophilicity       29-42         3258.       106-1       Hydrophilicity       52-58         3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       94-102         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       168-171         3266.       106-1       Hydrophilicity       187-189         3267.       108-1       AMPHI       6-8         3268.       108-1       AMPHI       21-37         3269.       108-1       AMPHI       72-75         3271.       108-1       AMPHI       79-93         3272.       108-1       AMPHI       119-135         3273.       108-1       AMPHI       137-140	3254.	106-1	Antigenic Index	165-174
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3259.       106-1       Hydrophilicity       63-68         3260.       106-1       Hydrophilicity       94-102         3261.       106-1       Hydrophilicity       111-115         3262.       106-1       Hydrophilicity       122-131         3263.       106-1       Hydrophilicity       147-149         3264.       106-1       Hydrophilicity       151-160         3265.       106-1       Hydrophilicity       168-171         3266.       106-1       Hydrophilicity       187-189         3267.       108-1       AMPHI       6-8         3268.       108-1       AMPHI       21-37         3269.       108-1       AMPHI       72-75         3271.       108-1       AMPHI       79-93         3272.       108-1       AMPHI       119-135         3273.       108-1       AMPHI       137-140	3257.	106-1	Hydrophilicity	29-42
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3377.	111-1	Hydrophilicity	344-351
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3379.	115-1	AMPHI	30-32
3380.	115-1	AMPHI	40-42
3381.	115-1	AMPHI	46-48
3382.	115-1	AMPHI	86-89
3383.	115-1	AMPHI	108-116
3384.	115-1	AMPHI	124-140
3385.	115-1	AMPHI	146-150
3386.	115-1	AMPHI	171-175
3387.	115-1	AMPHI	231-234
3388.	115-1	АМРНІ	249-255
3389.	115-1	АМРНІ	266-277
3390.	115-1	AMPHI	289-291
3391.	115-1	Antigenic Index	1-20
3392.	115-1	Antigenic Index	27-33
3393.	115-1	Antigenic Index	36-50
3394.	115-1	Antigenic Index	55-58
3395.	115-1	Antigenic Index	62-65
3396.	115-1	Antigenic Index	73-75
3397.	115-1	Antigenic Index	77-87
3398.	115-1	Antigenic Index	90-93
3399.	115-1	Antigenic Index	101-123
3400.	115-1	Antigenic Index	125-127
3401.	115-1	Antigenic Index	130-161
3402.	115-1	Antigenic Index	185-194
3403.	115-1	Antigenic Index	205-215
3404.	115-1	Antigenic Index	220-223
3405.	115-1	Antigenic Index	229-242
3406.	115-1	Antigenic Index	246-255
3407.	115-1	Antigenic Index	257-263
3408.	115-1	Antigenic Index	272-275
3409.	115-1	Antigenic Index	287-310
3410.	115-1	Antigenic Index	312-314
3411.	115-1	Antigenic Index	319-325
3412.	115-1	Hydrophilicity	3-7
3413.	115-1	Hydrophilicity	13-17
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3414.	115-1	Hydrophilicity	27-33
3415.	115-1	Hydrophilicity	40-46
3416.	115-1	Hydrophilicity	81-87
3417.	115-1	Hydrophilicity	101-105
3418.	115-1	Hydrophilicity	107-113
3419.	115-1	Hydrophilicity	120-123
3420.	115-1	Hydrophilicity	125-127
3421.	115-1	Hydrophilicity	130-149
3422.	115-1	Hydrophilicity	152-157
3423.	115-1	Hydrophilicity	185-194
3424.	115-1	Hydrophilicity	206-215
3425.	115-1	Hydrophilicity	229-233
3426.	115-1	Hydrophilicity	248-251
3427.	115-1	Hydrophilicity	257-263
3428.	115-1	Hydrophilicity	301-305
3429.	115-1	Hydrophilicity	312-314
3430.	115-1	Hydrophilicity	320-325
3431.	117-1	AMPHI	38-47
3432.	117-1	AMPHI	62-66
3433.	117-1	AMPHI	101-106
3434.	117-1	AMPHI	116-122
3435.	117-1	AMPHI	155-158
3436.	117-1	AMPHI	171-180
3437.	117-1	Antigenic Index	1-17
3438.	117-1	Antigenic Index	23-29
3439.	117-1	Antigenic Index	36-56
3440.	117-1	Antigenic Index	58-76
3441.	117-1	Antigenic Index	80-86
3442.	117-1	Antigenic Index	92-102
3443.	117-1	Antigenic Index	109-128
3444.	117-1	Antigenic Index	138-167
3445.	117-1	Antigenic Index	169-176
3446.	117-1	Antigenic Index	180-187
3447.	117-1	Antigenic Index	198-215
3448.	117-1	Antigenic Index	227-229
3449.	117-1	Hydrophilicity	5-14
3450.	117-1	Hydrophilicity	37-51
3451.	117-1	Hydrophilicity	58-68
3452.	117-1	Hydrophilicity	70-76
3453.	117-1	Hydrophilicity	82-84
3454.	117-1	Hydrophilicity	92-94
3455.	117-1	Hydrophilicity	96-98
3456.	117-1	Hydrophilicity	114-119
1 3430.			

2450	117.1	TT 1	120 155
3458.	117-1	Hydrophilicity	139-155
3459.	117-1	Hydrophilicity	161-165
3460.	117-1	Hydrophilicity	171-174
3461.	117-1	Hydrophilicity	181-186
3462.	117-1	Hydrophilicity	198-205
3463.	117-1	Hydrophilicity	211-215
3464.	119-1	АМРНІ	10-12
3465.	119-1	AMPHI	25-33
3466.	119-1	АМРНІ	48-51
3467.	119-1	AMPHI	68-73
3468.	119-1	АМРНІ	79-84
3469.	119-1	АМРНІ	120-127
3470.	119-1	AMPHI	132-141
3471.	119-1	АМРНІ	146-150
3472.	119-1	AMPHI	154-160
3473.	119-1	АМРНІ	173-176
3474.	119-1	АМРНІ	180-192
3475.	119-1	AMPHI	210-213
3476.	119-1	АМРНІ	215-217
3477.	119-1	АМРНІ	237-255
3478.	119-1	AMPHI	261-279
3479.	119-1	АМРНІ	289-292
3480.	119-1	АМРНІ	349-357
3481.	119-1	AMPHI	363-371
3482.	119-1	АМРНІ	388-400
3483.	119-1	Antigenic Index	20-57
3484.	119-1	Antigenic Index	60-87
3485.	119-1	Antigenic Index	91-114
3486.	119-1	Antigenic Index	121-151
3487.	119-1	Antigenic Index	156-161
3488.	119-1	Antigenic Index	179-186
3489.	119-1	Antigenic Index	188-196
3490.	119-1	Antigenic Index	202-208
3491.	119-1	Antigenic Index	212-214
3492.	119-1	Antigenic Index	229-241
3493.	119-1	Antigenic Index	244-247
3494.	119-1	Antigenic Index	252-255
3495.	119-1	Antigenic Index	278-281
3496.	119-1	Antigenic Index	290-292
3497.	119-1	Antigenic Index	296-300
3498.	119-1	Antigenic Index	309-314
3499.	119-1	Antigenic Index	318-324
3500.	119-1	Antigenic Index	331-337
3501.	119-1	Antigenic Index	341-348
3301.	117-1	Antigenic muex	0+1-140

2502	110.1	A matical and a land	256.266
3502.	119-1	Antigenic Index	356-366
3503.	119-1	Antigenic Index	379-378
3504.	119-1	Antigenic Index	385-393
3505.	119-1	Antigenic Index	398-401
3506.	119-1	Antigenic Index	407-412
3507.	119-1	Antigenic Index	415-423
3508.	119-1	Hydrophilicity	23-42
3509.	119-1	Hydrophilicity	45-56
3510.	119-1	Hydrophilicity	63-79
3511.	119-1	Hydrophilicity	81-87
3512.	119-1	Hydrophilicity	91-97
3513.	119-1	Hydrophilicity	99-113
3514.	119-1	Hydrophilicity	121-127
3515.	119-1	Hydrophilicity	130-143
3516.	119-1	Hydrophilicity	147-149
3517.	119-1	Hydrophilicity	156-161
3518.	119-1	Hydrophilicity	179-186
3519.	119-1	Hydrophilicity	190-195
3520.	119-1	Hydrophilicity	202-208
3521.	119-1	Hydrophilicity	232-241
3522.	119-1	Hydrophilicity	244-247
3523.	119-1	Hydrophilicity	278-281
3524.	119-1	Hydrophilicity	296-300
3525.	119-1	Hydrophilicity	309-314
3526.	119-1	Hydrophilicity	320-322
3527.	119-1	Hydrophilicity	359-366
3528.	119-1	Hydrophilicity	385-393
3529.	119-1	Hydrophilicity	398-401
3530.	119-1	Hydrophilicity	407-412
3531.	119-1	Hydrophilicity	418-423
3532.	120-1	AMPHI	6-11
3533.	120-1	АМРНІ	49-60
3534.	120-1	АМРНІ	77-89
3535.	120-1	AMPHI	118-121
3536.	120-1	AMPHI	142-158
3530.	120-1	AMPHI	189-196
3537.	120-1	Antigenic Index	3-6
3538.	120-1	Antigenic Index	35-39
3540.	120-1	Antigenic Index  Antigenic Index	45-54
	120-1	Antigenic Index	68-75
3541.			
3542.	120-1	Antigenic Index	80-83
3543.	120-1	Antigenic Index	85-95
3544.	120-1	Antigenic Index	97-119
3545.	120-1	Antigenic Index	131-150

3546.   120-1   Antigenic Index   153-183				
3548.   120-1   Antigenic Index   199-207	3546.	120-1	Antigenic Index	153-183
3549.   120-1   Antigenic Index   210-213	3547.	120-1	Antigenic Index	189-192
3550.   120-1   Antigenic Index   218-223   3551.   120-1   Hydrophilicity   3-5   3552.   120-1   Hydrophilicity   45-51   3553.   120-1   Hydrophilicity   68-70   3554.   120-1   Hydrophilicity   85-94   3555.   120-1   Hydrophilicity   97-100   3556.   120-1   Hydrophilicity   107-119   3557.   120-1   Hydrophilicity   107-119   3558.   120-1   Hydrophilicity   131-136   3558.   120-1   Hydrophilicity   143-149   3559.   120-1   Hydrophilicity   155-160   3560.   120-1   Hydrophilicity   167-182   3561.   120-1   Hydrophilicity   200-207   3562.   120-1   Hydrophilicity   210-213   3563.   120-1   Hydrophilicity   210-213   3564.   121-1   AMPHI   31-34   3565.   121-1   AMPHI   31-34   3566.   121-1   AMPHI   31-34   3566.   121-1   AMPHI   31-34   3566.   121-1   AMPHI   36-40   3569.   121-1   AMPHI   35-60   3569.   121-1   AMPHI   35-60   3	3548.	120-1	Antigenic Index	199-207
3551.         120-1         Hydrophilicity         3-5           3552.         120-1         Hydrophilicity         45-51           3553.         120-1         Hydrophilicity         85-94           3554.         120-1         Hydrophilicity         97-100           3555.         120-1         Hydrophilicity         107-119           3556.         120-1         Hydrophilicity         131-136           3557.         120-1         Hydrophilicity         135-160           3558.         120-1         Hydrophilicity         155-160           3560.         120-1         Hydrophilicity         167-182           3561.         120-1         Hydrophilicity         200-207           3562.         120-1         Hydrophilicity         210-213           3563.         120-1         Hydrophilicity         210-213           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-4           3566.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         39-10           3568.	3549.	120-1	Antigenic Index	210-213
3551.         120-1         Hydrophilicity         3-5           3552.         120-1         Hydrophilicity         45-51           3553.         120-1         Hydrophilicity         85-94           3554.         120-1         Hydrophilicity         97-100           3555.         120-1         Hydrophilicity         107-119           3556.         120-1         Hydrophilicity         131-136           3557.         120-1         Hydrophilicity         135-160           3558.         120-1         Hydrophilicity         155-160           3560.         120-1         Hydrophilicity         167-182           3561.         120-1         Hydrophilicity         200-207           3562.         120-1         Hydrophilicity         210-213           3563.         120-1         Hydrophilicity         210-213           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-4           3566.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         39-10           3568.	3550.	120-1	Antigenic Index	218-223
3552.         120-1         Hydrophilicity         45-51           3533.         120-1         Hydrophilicity         68-70           3554.         120-1         Hydrophilicity         97-100           3555.         120-1         Hydrophilicity         107-119           3557.         120-1         Hydrophilicity         131-136           3558.         120-1         Hydrophilicity         143-149           3559.         120-1         Hydrophilicity         155-160           3560.         120-1         Hydrophilicity         167-182           3561.         120-1         Hydrophilicity         200-207           3562.         120-1         Hydrophilicity         210-213           3563.         120-1         Hydrophilicity         219-223           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         42-54           3568.         121-1         AMPHI         19-121           3570.         121-1         AMPHI         114-117           3571.	3551.	120-1	Hydrophilicity	3-5
3554.   120-1   Hydrophilicity   97-100   3555.   120-1   Hydrophilicity   97-100   3556.   120-1   Hydrophilicity   107-119   3557.   120-1   Hydrophilicity   131-136   3558.   120-1   Hydrophilicity   143-149   3559.   120-1   Hydrophilicity   155-160   3560.   120-1   Hydrophilicity   167-182   3561.   120-1   Hydrophilicity   200-207   3562.   120-1   Hydrophilicity   210-213   3563.   120-1   Hydrophilicity   210-213   3564.   121-1   AMPHI   31-34   3565.   121-1   AMPHI   31-34   3566.   121-1   AMPHI   31-34   3566.   121-1   AMPHI   36-40   3567.   121-1   AMPHI   36-40   3568.   121-1   AMPHI   3569.   121-1   AMPHI   3569.   121-1   AMPHI   3570.   121-1   AMPHI   31-31   3570.   121-1   AMPHI   31-31   3571.   321-1   AMPHI   31-31   3572.   121-1   AMPHI   31-31-37   3573.   121-1   AMPHI   31-31-37   3573.   121-1   AMPHI   36-40   3574.   312-1   AMPHI   36-40   3577.   312-1   AMPHI   36-40   3577.   321-1   AMPHI   31-31-37   3578.   321-1   AMPHI   34-361   3576.   321-1   AMPHI   34-361   3577.   321-1   AMPHI   34-361   3578.   321-1   AMPHI   31-330   3579.   321-1   AMPHI   31-330   3579.   321-1   AMPHI   31-330   3580.   321-1   Antigenic Index   31-33   3581.   321-1   Antigenic Index   31-33   3581.   321-1   Antigenic Index   31-33   3581.   321-1   Antigenic Index   31-31   3586.   321-1   Antigenic Index   31-31   3588.   321-1   Antigenic Index   31-318   3588.   321-1   Antigenic Index   31-318   3588.   321-1   Antigenic Index   31-318   3588	3552.	120-1		45-51
3555.   120-1   Hydrophilicity   97-100   3556.   120-1   Hydrophilicity   107-119   3557.   120-1   Hydrophilicity   131-136   3558.   120-1   Hydrophilicity   143-149   3559.   120-1   Hydrophilicity   155-160   3560.   120-1   Hydrophilicity   200-207   3561.   120-1   Hydrophilicity   210-213   3563.   120-1   Hydrophilicity   210-213   3563.   120-1   Hydrophilicity   219-223   3564.   121-1   AMPHI   31-34   3566.   121-1   AMPHI   31-34   3566.   121-1   AMPHI   36-40   3567.   121-1   AMPHI   36-40   3567.   121-1   AMPHI   389-103   3568.   121-1   AMPHI   310-34   3569.   121-1   AMPHI   114-117   3570.   121-1   AMPHI   119-121   3571.   121-1   AMPHI   123-127   3572.   121-1   AMPHI   123-127   3573.   121-1   AMPHI   134-147   3573.   121-1   AMPHI   134-164   3574.   121-1   AMPHI   188-211   3575.   121-1   AMPHI   188-211   3576.   121-1   AMPHI   363-285   3577.   121-1   AMPHI   243-261   3576.   121-1   AMPHI   314-330   3579.   121-1   AMPHI   314-330   3580.   121-1   Antigenic Index   31-33   3581.   121-1   Antigenic Index   31-33   3581.   121-1   Antigenic Index   31-33   3581.   121-1   Antigenic Index   115-118   3586.   121-1   Antigenic Index   134-141   3586.   121-1   Antigenic Index   136-156   3587.   121-1   Antigenic Index   137-189	3553.	120-1	Hydrophilicity	68-70
3556.         120-1         Hydrophilicity         107-119           3557.         120-1         Hydrophilicity         131-136           3558.         120-1         Hydrophilicity         143-149           3559.         120-1         Hydrophilicity         155-160           3560.         120-1         Hydrophilicity         200-207           3561.         120-1         Hydrophilicity         210-213           3563.         120-1         Hydrophilicity         219-223           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         42-54           3568.         121-1         AMPHI         89-103           3569.         121-1         AMPHI         114-117           3570.         121-1         AMPHI         119-121           3571.         121-1         AMPHI         134-147           3573.         121-1         AMPHI         154-164           3574.         121-1         AMPHI         154-164           3576.         121-1         AM	3554.	120-1	Hydrophilicity	85-94
3557.         120-1         Hydrophilicity         131-136           3558.         120-1         Hydrophilicity         143-149           3559.         120-1         Hydrophilicity         155-160           3560.         120-1         Hydrophilicity         200-207           3561.         120-1         Hydrophilicity         210-213           3562.         120-1         Hydrophilicity         219-223           3563.         120-1         Hydrophilicity         219-223           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         89-103           3568.         121-1         AMPHI         89-103           3569.         121-1         AMPHI         114-117           3570.         121-1         AMPHI         119-121           3571.         121-1         AMPHI         123-127           3572.         121-1         AMPHI         154-164           3574.         121-1         AMPHI         188-211           3575.         121-1         A	3555.	120-1	Hydrophilicity	97-100
3558.         120-1         Hydrophilicity         143-149           3559.         120-1         Hydrophilicity         155-160           3560.         120-1         Hydrophilicity         167-182           3561.         120-1         Hydrophilicity         200-207           3562.         120-1         Hydrophilicity         210-213           3563.         120-1         Hydrophilicity         219-223           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         42-54           3568.         121-1         AMPHI         89-103           3569.         121-1         AMPHI         114-117           3570.         121-1         AMPHI         119-121           3571.         121-1         AMPHI         123-127           3572.         121-1         AMPHI         134-147           3573.         121-1         AMPHI         188-211           3574.         121-1         AMPHI         188-211           3575.         121-1         AMPHI	3556.	120-1	Hydrophilicity	107-119
3558.         120-1         Hydrophilicity         143-149           3559.         120-1         Hydrophilicity         155-160           3560.         120-1         Hydrophilicity         167-182           3561.         120-1         Hydrophilicity         200-207           3562.         120-1         Hydrophilicity         210-213           3563.         120-1         Hydrophilicity         219-223           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         42-54           3568.         121-1         AMPHI         89-103           3569.         121-1         AMPHI         114-117           3570.         121-1         AMPHI         119-121           3571.         121-1         AMPHI         123-127           3572.         121-1         AMPHI         134-147           3573.         121-1         AMPHI         188-211           3574.         121-1         AMPHI         188-211           3575.         121-1         AMPHI	3557.	120-1		
3559.         120-1         Hydrophilicity         155-160           3560.         120-1         Hydrophilicity         167-182           3561.         120-1         Hydrophilicity         200-207           3562.         120-1         Hydrophilicity         219-223           3563.         120-1         Hydrophilicity         219-223           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         42-54           3568.         121-1         AMPHI         89-103           3569.         121-1         AMPHI         114-117           3570.         121-1         AMPHI         119-121           3571.         121-1         AMPHI         134-147           3573.         121-1         AMPHI         134-147           3574.         121-1         AMPHI         188-211           3575.         121-1         AMPHI         243-261           3576.         121-1         AMPHI         243-261           3577.         121-1         AMPHI         <	3558.	120-1		143-149
3561.         120-1         Hydrophilicity         200-207           3562.         120-1         Hydrophilicity         210-213           3563.         120-1         Hydrophilicity         219-223           3564.         121-1         AMPHI         11-14           3565.         121-1         AMPHI         31-34           3566.         121-1         AMPHI         36-40           3567.         121-1         AMPHI         42-54           3568.         121-1         AMPHI         89-103           3569.         121-1         AMPHI         114-117           3570.         121-1         AMPHI         119-121           3571.         121-1         AMPHI         123-127           3572.         121-1         AMPHI         134-147           3573.         121-1         AMPHI         154-164           3574.         121-1         AMPHI         188-211           3575.         121-1         AMPHI         243-261           3577.         121-1         AMPHI         314-330           3579.         121-1         Antigenic Index         31-33           3581.         121-1         Antigenic Index         <	3559.	120-1		155-160
3562.       120-1       Hydrophilicity       210-213         3563.       120-1       Hydrophilicity       219-223         3564.       121-1       AMPHI       11-14         3565.       121-1       AMPHI       31-34         3566.       121-1       AMPHI       36-40         3567.       121-1       AMPHI       42-54         3568.       121-1       AMPHI       89-103         3569.       121-1       AMPHI       114-117         3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       15-118      <	3560.	120-1	Hydrophilicity	167-182
3562.       120-1       Hydrophilicity       210-213         3563.       120-1       Hydrophilicity       219-223         3564.       121-1       AMPHI       11-14         3565.       121-1       AMPHI       31-34         3566.       121-1       AMPHI       36-40         3567.       121-1       AMPHI       42-54         3568.       121-1       AMPHI       89-103         3569.       121-1       AMPHI       114-117         3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       15-118      <	3561.	120-1		200-207
3563.       120-1       Hydrophilicity       219-223         3564.       121-1       AMPHI       11-14         3565.       121-1       AMPHI       31-34         3566.       121-1       AMPHI       36-40         3567.       121-1       AMPHI       42-54         3568.       121-1       AMPHI       89-103         3569.       121-1       AMPHI       114-117         3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       314-330         3578.       121-1       ANPHI       314-330         3579.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       15-118		120-1		210-213
3565.       121-1       AMPHI       31-34         3566.       121-1       AMPHI       36-40         3567.       121-1       AMPHI       42-54         3568.       121-1       AMPHI       89-103         3569.       121-1       AMPHI       114-117         3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       115-118         3585.       121-1       Antigenic Index       134-141	3563.	120-1		219-223
3566.       121-1       AMPHI       36-40         3567.       121-1       AMPHI       42-54         3568.       121-1       AMPHI       89-103         3569.       121-1       AMPHI       114-117         3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       314-330         3578.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       35-63         3582.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       115-118         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-	3564.	121-1	AMPHI	11-14
3566.       121-1       AMPHI       36-40         3567.       121-1       AMPHI       42-54         3568.       121-1       AMPHI       89-103         3569.       121-1       AMPHI       114-117         3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       314-330         3578.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       35-63         3582.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       115-118         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-	3565.	121-1	AMPHI	31-34
3568.       121-1       AMPHI       89-103         3569.       121-1       AMPHI       114-117         3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       243-261         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       15-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic In	3566.	121-1	AMPHI	36-40
3569.       121-1       AMPHI       114-117         3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       15-118         3583.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       179-184         3588.       121-1       A	3567.	121-1	AMPHI	42-54
3570.       121-1       AMPHI       119-121         3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       15-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3568.	121-1	AMPHI	89-103
3571.       121-1       AMPHI       123-127         3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       314-330         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       115-118         3583.       121-1       Antigenic Index       120-124         3584.       121-1       Antigenic Index       134-141         3585.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3569.	121-1	AMPHI	114-117
3572.       121-1       AMPHI       134-147         3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       134-141         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3570.	121-1	AMPHI	119-121
3573.       121-1       AMPHI       154-164         3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3571.	121-1	AMPHI	123-127
3574.       121-1       AMPHI       188-211         3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3572.	121-1	AMPHI	134-147
3575.       121-1       AMPHI       243-261         3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3573.	121-1	AMPHI	154-164
3576.       121-1       AMPHI       263-285         3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3574.	121-1	AMPHI	188-211
3577.       121-1       AMPHI       287-291         3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3575.	121-1	AMPHI	243-261
3578.       121-1       AMPHI       314-330         3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3576.	121-1	AMPHI	263-285
3579.       121-1       Antigenic Index       1-10         3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3577.	121-1	АМРНІ	287-291
3580.       121-1       Antigenic Index       31-33         3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3578.	121-1	AMPHI	314-330
3581.       121-1       Antigenic Index       53-63         3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3579.	121-1	Antigenic Index	1-10
3582.       121-1       Antigenic Index       95-97         3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3580.	121-1	Antigenic Index	31-33
3583.       121-1       Antigenic Index       115-118         3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3581.	121-1	Antigenic Index	53-63
3584.       121-1       Antigenic Index       120-124         3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3582.	121-1	Antigenic Index	95-97
3585.       121-1       Antigenic Index       134-141         3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3583.	121-1	Antigenic Index	115-118
3586.       121-1       Antigenic Index       150-156         3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3584.	121-1	Antigenic Index	120-124
3587.       121-1       Antigenic Index       179-184         3588.       121-1       Antigenic Index       187-189	3585.	121-1	Antigenic Index	134-141
3588. 121-1 Antigenic Index 187-189	3586.	121-1	Antigenic Index	150-156
	3587.	121-1	Antigenic Index	179-184
3589.   121-1   Antigenic Index   191-193	3588.	121-1	Antigenic Index	187-189
	3589.	121-1	Antigenic Index	191-193

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3590.	121-1	Antigenic Index	198-204
3591.	121-1	Antigenic Index	234-236
3592.	121-1	Antigenic Index	271-273
3593.	121-1	Antigenic Index	297-306
3594.	121-1	Antigenic Index	342-344
3595.	121-1	Antigenic Index	352-356
3596.	121-1	Hydrophilicity	1-9
3597.	121-1	Hydrophilicity	56-63
3598.	121-1	Hydrophilicity	120-124
3599.	121-1	Hydrophilicity	136-138
3600.	121-1	Hydrophilicity	152-154
3601.	121-1	Hydrophilicity	187-189
3602.	121-1	Hydrophilicity	191-193
3603.	121-1	Hydrophilicity	298-304
3604.	121-1	Hydrophilicity	342-344
3605.	121-1	Hydrophilicity	353-356
3606.	122-1	AMPHI	29-34
3607.	122-1	AMPHI	71-77
3608.	122-1	AMPHI	82-86
3609.	122-1	АМРНІ	94-102
3610.	122-1	АМРНІ	108-116
3611.	122-1	АМРНІ	128-132
3612.	122-1	AMPHI	136-144
3613.	122-1	АМРНІ	158-162
3614.	122-1	AMPHI	169-172
3615.	122-1	AMPHI	177-199
3616.	122-1	АМРНІ	202-208
3617.	122-1	AMPHI	234-245
3618.	122-1	Antigenic Index	5-13
3619.	122-1	Antigenic Index	28-34
3620.	122-1	Antigenic Index	46-50
3621.	122-1	Antigenic Index	59-61
3622.	122-1	Antigenic Index	69-77
3623.	122-1	Antigenic Index	85-94
3624.	122-1	Antigenic Index	96-102
3625.	122-1	Antigenic Index	107-111
3626.	122-1	Antigenic Index	122-126
3627.	122-1	Antigenic Index	134-137
3628.	122-1	Antigenic Index	140-147
3629.	122-1	Antigenic Index	150-162
3630.	122-1	Antigenic Index	167-177
3631.	122-1	Antigenic Index	184-187
3632.	122-1	Antigenic Index	190-192
3633.	122-1	Antigenic Index	198-210

3634.	122-1	Antigenic Index	216-218
	122-1	Antigenic Index	224-232
3635.			
3636.	122-1	Antigenic Index	246-256
3637.	122-1	Hydrophilicity	10-13
3638.	122-1	Hydrophilicity	28-34
3639.	122-1	Hydrophilicity	88-94
3640.	122-1	Hydrophilicity	99-102
3641.	122-1	Hydrophilicity	122-126
3642.	122-1	Hydrophilicity	140-146
3643.	122-1	Hydrophilicity	153-162
3644.	122-1	Hydrophilicity	167-177
3645.	122-1	Hydrophilicity	190-192
3646.	122-1	Hydrophilicity	198-206
3647.	122-1	Hydrophilicity	208-210
<u>3</u> 648.	122-1	Hydrophilicity	226-228
3649.	122-1	Hydrophilicity	246-254
3650.	125-1	AMPHI	8-10
3651.	125-1	AMPHI	29-34
3652.	125-1	AMPHI	39-45
3653.	125-1	AMPHI	62-65
3654.	125-1	AMPHI	89-100
3655.	125-1	AMPHI	109-115
3656.	125-1	AMPHI	145-152
3657.	125-1	АМРНІ	175-182
3658.	125-1	AMPHI	191-196
3659.	125-1	AMPHI	205-218
3660.	125-1	АМРНІ	224-229
3661.	125-1	AMPHI	262-277
3662.	125-1	AMPHI	286-290
3663.	125-1	АМРНІ	300-306
3664.	125-1	AMPHI	325-332
3665.	125-1	Antigenic Index	1-11
3666.	125-1	Antigenic Index	37-39
3667.	125-1	Antigenic Index	66-85
3668.	125-1	Antigenic Index	118-122
3669.	125-1	Antigenic Index	141-148
3670.	125-1	Antigenic Index	171-173
3671.	125-1	Antigenic Index	177-183
3672.	125-1	Antigenic Index	204-213
3673.	125-1	Antigenic Index	242-247
3674.	125-1	Antigenic Index	281-285
3675.	125-1	Antigenic Index	288-291
3676.	125-1	Antigenic Index	312-314
3677.	125-1	Antigenic Index	338-347

0.50	125.1		260.070
3678.	125-1	Antigenic Index	368-373
3679.	125-1	Antigenic Index	395-407
3680.	125-1	Hydrophilicity	5-10
3681.	125-1	Hydrophilicity	67-76
3682.	125-1	Hydrophilicity	78-84
3683.	125-1	Hydrophilicity	142-147
3684.	125-1	Hydrophilicity	177-180
3685.	125-1	Hydrophilicity	204-213
3686.	125-1	Hydrophilicity	242-247
3687.	125-1	Hydrophilicity	288-291
3688.	125-1	Hydrophilicity	338-347
3689.	125-1	Hydrophilicity	398-407
3690.	126-1	AMPHI	10-12
3691.	126-1	АМРНІ	34-38
3692.	126-1	АМРНІ	52-64
3693.	126-1	AMPHI	72-74
3694.	126-1	АМРНІ	104-112
3695.	126-1	AMPHI	138-140
3696.	126-1	АМРНІ	157-168
3697.	126-1	АМРНІ	180-182
3698.	126-1	AMPHI	201-214
3699.	126-1	AMPHI	228-235
3700.	126-1	AMPHI	264-266
3701.	126-1	AMPHI	271-283
3702.	126-1	AMPHI	287-290
3703.	126-1	АМРНІ	293-295
3704.	126-1	AMPHI	312-317
3705.	126-1	АМРНІ	319-321
3706.	126-1	Antigenic Index	8-14
3707.	126-1	Antigenic Index	22-25
3708.	126-1	Antigenic Index	29-39
3709.	126-1	Antigenic Index	54-92
3710.	126-1	Antigenic Index	96-155
3711.	126-1	Antigenic Index	162-169
3712.	126-1	Antigenic Index	175-182
3713.	126-1	Antigenic Index	190-219
3714.	126-1	Antigenic Index	226-239
3715.	126-1	Antigenic Index	244-249
3716.	126-1	Antigenic Index	256-272
3717.	126-1	Antigenic Index	283-287
3718.	126-1	Antigenic Index	295-318
3719.	126-1	Antigenic Index	325-327
3720.	126-1	Antigenic Index	346-358
3721.	126-1	Antigenic Index	362-366
3141.	120-1	Antigonic mack	302-300

2722	126.1	111 1 111	21.20
3722.	126-1	Hydrophilicity	31-39
3723.	126-1	Hydrophilicity	54-67
3724.	126-1	Hydrophilicity	76-80
3725.	126-1	Hydrophilicity	87-90
3726.	126-1	Hydrophilicity	97-103
3727.	126-1	Hydrophilicity	105-135
3728.	126-1	Hydrophilicity	138-140
3729.	126-1	Hydrophilicity	149-155
3730.	126-1	Hydrophilicity	162-168
3731.	126-1	Hydrophilicity	177-179
3732.	126-1	Hydrophilicity	193-196
3733.	126-1	Hydrophilicity	205-210
3734.	126-1	Hydrophilicity	212-219
3735.	126-1	Hydrophilicity	230-233
3736.	126-1	Hydrophilicity	245-249
3737.	126-1	Hydrophilicity	257-264
3738.	126-1	Hydrophilicity	266-268
3739.	126-1	Hydrophilicity	270-272
3740.	126-1	Hydrophilicity	304-318
3741.	126-1	Hydrophilicity	346-358
3742.	126-1	Hydrophilicity	363-366
3743.	127-1	AMPHI	9-16
3744.	127-1	AMPHI	21-25
3745.	127-1	AMPHI	85-90
3746.	127-1	AMPHI	128-138
3747.	127-1	Antigenic Index	1-8
3748.	127-1	Antigenic Index	28-41
3749.	127-1	Antigenic Index	57-81
3750.	127-1	Antigenic Index	91-98
3751.	127-1	Antigenic Index	103-111
3752.	127-1	Antigenic Index	115-118
3753.	127-1	Antigenic Index	123-149
3754.	127-1	Hydrophilicity	1-6
3755.	127-1	Hydrophilicity	32-41
3756.	127-1	Hydrophilicity	61-67
3757.	127-1	Hydrophilicity	74-81
3758.	127-1	Hydrophilicity	91-95
3759.	127-1	Hydrophilicity	103-111
3760.	127-1	Hydrophilicity	115-117
3761.	127-1	Hydrophilicity	124-134
3762.	127-1	Hydrophilicity	139-149
3763.	128-1	AMPHI	13-18
3764.	128-1	AMPHI	53-56
3765.	128-1	AMPHI	68-79
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3766.	128-1	AMPHI	81-86
3767.	128-1	АМРНІ	97-107
3768	128-1	AMPHI	162-170
3769.	128-1	AMPHI	187-196
3770.	128-1	AMPHI	204-208
3771.	128-1	AMPHI	210-213
3772.	128-1	АМРНІ	241-246
3773.	128-1	АМРНІ	283-285
3774.	128-1	АМРНІ	327-333
3775.	128-1	АМРНІ	335-338
3776.	128-1	АМРНІ	385-387
3777	128-1	АМРНІ	389-392
3778.	128-1	АМРНІ	403-405
3779.	128-1	АМРНІ	412-422
3780.	128-1	АМРНІ	454-460
3781.	128-1	AMPHI	470-472
3782.	128-1	АМРНІ	496-512
3783.	128-1	AMPHI	529-551
3784.	128-1	АМРНІ	556-566
3785.	128-1	АМРНІ	580-585
3786.	128-1	AMPHI	596-599
3787.	128-1	АМРНІ	606-621
3788.	128-1	Antigenic Index	4-14
3789.	128-1	Antigenic Index	27-34
3790.	128-1	Antigenic Index	57-75
3791.	128-1	Antigenic Index	98-107
3792.	128-1	Antigenic Index	128-133
3793.	128-1	Antigenic Index	142-144
3794.	128-1	Antigenic Index	157-166
3795.	128-1	Antigenic Index	184-187
3796.	128-1	Antigenic Index	194-198
3797.	128-1	Antigenic Index	221-235
3798.	128-1	Antigenic Index	252-258
3799.	128-1	Antigenic Index	277-280
3800.	128-1	Antigenic Index	315-322
3801.	128-1	Antigenic Index	347-356
3802.	128-1	Antigenic Index	380-393
3803.	128-1	Antigenic Index	410-414
3804.	128-1	Antigenic Index	423-430
3805.	128-1	Antigenic Index	433-440
3806.	128-1	Antigenic Index	444-465
3807.	128-1	Antigenic Index	475-487
3808.	128-1	Antigenic Index	497-508
3809.	128-1	Antigenic Index	517-535
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3810.	128-1	Antigenic Index	538-541
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3811.	128-1	Antigenic Index	547-555
3812.	128-1	Antigenic Index	559-564
3813.	128-1	Antigenic Index	572-580
3814.	128-1	Antigenic Index	582-584
3815.	128-1	Antigenic Index	587-594
3816.	128-1	Antigenic Index	605-620
3817.	128-1	Hydrophilicity	4-14
3818.	128-1	Hydrophilicity	67-74
3819.	128-1	Hydrophilicity	99-107
3820.	128-1	Hydrophilicity	128-133
3821	128-1	Hydrophilicity	159-166
3822.	128-1	Hydrophilicity	222-235
3823.	128-1	Hydrophilicity	253-255
3824.	128-1	Hydrophilicity	317-322
3825.	128-1	Hydrophilicity	347-356
3826.	128-1	Hydrophilicity	381-388
3827.	128-1	Hydrophilicity	410-414
3828.	128-1	Hydrophilicity	423-430
3829.	128-1	Hydrophilicity	433-439
3830.	128-1	Hydrophilicity	444-450
3831.	128-1	Hydrophilicity	452-465
3832.	128-1	Hydrophilicity	476-479
3833.	128-1	Hydrophilicity	483-487
3834.	128-1	Hydrophilicity	497-508
3835.	128-1	Hydrophilicity	520-535
3836.	128-1	Hydrophilicity	548-553
3837.	128-1	Hydrophilicity	559-564
3838.	128-1	Hydrophilicity	572-576
3839.	128-1	Hydrophilicity	578-580
3840.	128-1	Hydrophilicity	590-593
3841.	128-1	Hydrophilicity	605-614
3842.	129-1	AMPHI	38-49
3843.	129-1	АМРНІ	52-55
3844.	129-1	AMPHI	132-137
3845.	129-1	AMPHI	150-154
3846.	129-1	AMPHI	157-160
3847.	129-1	AMPHI	170-183
3848.	129-1	AMPHI	194-201
3849.	129-1	AMPHI	221-223
			230-234
3850.	129-1	AMPHI Antigonia Indov	
3851.	129-1	Antigenic Index	3-5
3852.	129-1	Antigenic Index	49-53
3853.	129-1	Antigenic Index	95-99

3855.   129-1   Antigenic Index   108-116	2071	1.00.4	1	100.106
3856.   129-1   Antigenic Index   127-130   3857.   129-1   Antigenic Index   140-152   3858.   129-1   Antigenic Index   170-176   3859.   129-1   Antigenic Index   186-191   3860.   129-1   Antigenic Index   207-210   3861.   129-1   Antigenic Index   212-217   3862.   129-1   Antigenic Index   238-248   3863.   129-1   Antigenic Index   238-248   3864.   129-1   Hydrophilicity   3-5   3864.   129-1   Hydrophilicity   49-53   3865.   129-1   Hydrophilicity   108-110   108-110   13866.   129-1   Hydrophilicity   112-114   3867.   129-1   Hydrophilicity   142-152   3868.   129-1   Hydrophilicity   142-152   3869.   129-1   Hydrophilicity   186-190   3870.   129-1   Hydrophilicity   186-190   3870.   129-1   Hydrophilicity   218-215   3871.   129-1   Hydrophilicity   238-248   3872.   130-1   AMPHI   12-17   3873.   130-1   AMPHI   12-17   3873.   130-1   AMPHI   42-45   3874.   130-1   AMPHI   42-45   3875.   130-1   AMPHI   121-127   3876.   130-1   AMPHI   121-127   3877.   130-1   AMPHI   121-127   3878.   130-1   AMPHI   121-127   3879.   130-1   AMPHI   121-127   3879.   130-1   AMPHI   218-224   3879.   130-1   AMPHI   220-238   3881.   130-1   AMPHI   220-238   3881.   130-1   AMPHI   220-238   3881.   130-1   AMPHI   220-243   3882.   130-1   AMPHI   240-243   3883.   130-1   AMPHI   240-243   3884.   130-1   AMPHI   240-243   3885.   130-1   AMPHI   240-243   3885.   130-1   AMPHI   240-243   3887.   130-1   AMPHI   240-243   3888.   130-1   AMPHI   240-243   3889.   130-1   Antigenic Index   240-243   3899.   130-1   Antigenic Index   240-224   3899.   130-1   Antigenic Index   240-229   3893.   130-1   Antigenic Index   240-229   3893.   130-1   Antigenic Index   240-229   3893.   130-1   Antigenic	3854.	129-1	Antigenic Index	102-106
3857.         129-1         Antigenic Index         140-152           3858.         129-1         Antigenic Index         170-176           3859.         129-1         Antigenic Index         186-191           3860.         129-1         Antigenic Index         207-210           3861.         129-1         Antigenic Index         212-217           3862.         129-1         Antigenic Index         238-248           3863.         129-1         Hydrophilicity         3-5           3864.         129-1         Hydrophilicity         49-53           3865.         129-1         Hydrophilicity         108-110           3866.         129-1         Hydrophilicity         112-114           3867.         129-1         Hydrophilicity         170-175           3868.         129-1         Hydrophilicity         170-175           3869.         129-1         Hydrophilicity         186-190           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45				
3858.   129-1   Antigenic Index   170-176   3859.   129-1   Antigenic Index   186-191   3860.   129-1   Antigenic Index   207-210   3861.   129-1   Antigenic Index   212-217   3862.   129-1   Antigenic Index   213-217   3863.   129-1   Hydrophilicity   3-5   3864.   129-1   Hydrophilicity   49-53   3865.   129-1   Hydrophilicity   108-110   3866.   129-1   Hydrophilicity   112-114   3867.   129-1   Hydrophilicity   142-152   3868.   129-1   Hydrophilicity   142-152   3868.   129-1   Hydrophilicity   186-190   3870.   129-1   Hydrophilicity   186-190   3870.   129-1   Hydrophilicity   213-215   3871.   129-1   Hydrophilicity   238-248   3872.   130-1   AMPHI   12-17   3873.   130-1   AMPHI   42-45   3874.   130-1   AMPHI   42-45   3875.   130-1   AMPHI   42-45   3876.   130-1   AMPHI   121-127   3876.   130-1   AMPHI   121-127   3876.   130-1   AMPHI   121-127   3878.   130-1   AMPHI   124-206   3879.   130-1   AMPHI   124-206   3879.   130-1   AMPHI   204-206   3879.   130-1   AMPHI   230-232   3880.   130-1   AMPHI   230-232   3880.   130-1   AMPHI   230-232   3880.   130-1   AMPHI   230-232   3880.   130-1   AMPHI   240-243   3882.   130-1   AMPHI   240-243   3883.   130-1   AMPHI   240-243   3885.   130-1   AMPHI   240-243   3885.   130-1   AMPHI   240-243   3885.   130-1   AMPHI   240-243   3887.   130-1   AMPHI   240-243   3888.   130-1   AMPHI   240-243   3889.   130-1   Antigenic Index   56-62   3888.   130-1   Antigenic Index   56-62   3888.   130-1   Antigenic Index   56-62   3889.   130-1   Antigenic Index   26-229   3893.   130-1   Antigenic Index   319-321   3895.   130-1   Antigenic Index   35-357				
3859.   129-1   Antigenic Index   186-191				<u> </u>
3860.         129-1         Antigenic Index         207-210           3861.         129-1         Antigenic Index         212-217           3862.         129-1         Antigenic Index         238-248           3863.         129-1         Hydrophilicity         3-5           3864.         129-1         Hydrophilicity         108-110           3865.         129-1         Hydrophilicity         112-114           3866.         129-1         Hydrophilicity         170-175           3868.         129-1         Hydrophilicity         170-175           3869.         129-1         Hydrophilicity         170-175           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         164-169           3878.         130-1         AMPHI         218-224           3880.				
3861.         129-1         Antigenic Index         212-217           3862.         129-1         Antigenic Index         238-248           3863.         129-1         Hydrophilicity         3-5           3864.         129-1         Hydrophilicity         49-53           3865.         129-1         Hydrophilicity         112-114           3866.         129-1         Hydrophilicity         112-114           3867.         129-1         Hydrophilicity         170-175           3868.         129-1         Hydrophilicity         186-190           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         212-224           3879. <td< td=""><td>3859.</td><td>129-1</td><td>Antigenic Index</td><td>186-191</td></td<>	3859.	129-1	Antigenic Index	186-191
3862.         129-1         Antigenic Index         238-248           3863.         129-1         Hydrophilicity         3-5           3864.         129-1         Hydrophilicity         49-53           3865.         129-1         Hydrophilicity         108-110           3866.         129-1         Hydrophilicity         112-114           3867.         129-1         Hydrophilicity         142-152           3868.         129-1         Hydrophilicity         170-175           3869.         129-1         Hydrophilicity         186-190           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         236-238           3881.	3860.	129-1		207-210
3863.         129-1         Hydrophilicity         3-5           3864.         129-1         Hydrophilicity         49-53           3865.         129-1         Hydrophilicity         108-110           3866.         129-1         Hydrophilicity         112-114           3867.         129-1         Hydrophilicity         142-152           3868.         129-1         Hydrophilicity         186-190           3870.         129-1         Hydrophilicity         218-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         21-127           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         236-238           3881.         130-1         <	3861.	129-1		212-217
3864.         129-1         Hydrophilicity         108-110           3865.         129-1         Hydrophilicity         108-110           3866.         129-1         Hydrophilicity         112-114           3867.         129-1         Hydrophilicity         142-152           3868.         129-1         Hydrophilicity         170-175           3869.         129-1         Hydrophilicity         212-215           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1	3862	129-1	Antigenic Index	238-248
3865.         129-1         Hydrophilicity         108-110           3866.         129-1         Hydrophilicity         112-114           3867.         129-1         Hydrophilicity         142-152           3868.         129-1         Hydrophilicity         170-175           3869.         129-1         Hydrophilicity         212-215           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1 <td< td=""><td>3863.</td><td>129-1</td><td>Hydrophilicity</td><td>3-5</td></td<>	3863.	129-1	Hydrophilicity	3-5
3866.         129-1         Hydrophilicity         112-114           3867.         129-1         Hydrophilicity         142-152           3868.         129-1         Hydrophilicity         170-175           3869.         129-1         Hydrophilicity         186-190           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         230-232           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI <td>3864.</td> <td>129-1</td> <td>Hydrophilicity</td> <td>49-53</td>	3864.	129-1	Hydrophilicity	49-53
3867.         129-1         Hydrophilicity         142-152           3868.         129-1         Hydrophilicity         170-175           3869.         129-1         Hydrophilicity         186-190           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         164-169           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         267-276           3883.         130-1         AMPHI         267-276           3884.         130-1         Antigenic Index </td <td>3865.</td> <td>129-1</td> <td>Hydrophilicity</td> <td>108-110</td>	3865.	129-1	Hydrophilicity	108-110
3868.         129-1         Hydrophilicity         170-175           3869.         129-1         Hydrophilicity         186-190           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         164-169           3876.         130-1         AMPHI         204-206           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         267-276           3884.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index <td>3866.</td> <td>129-1</td> <td>Hydrophilicity</td> <td>112-114</td>	3866.	129-1	Hydrophilicity	112-114
3869.         129-1         Hydrophilicity         186-190           3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         164-169           3876.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         292-300           3886.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         24-24           3888.         130-1         Antigenic Index <td>3867.</td> <td>129-1</td> <td>Hydrophilicity</td> <td>142-152</td>	3867.	129-1	Hydrophilicity	142-152
3870.         129-1         Hydrophilicity         212-215           3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         292-300           3886.         130-1         AMPHI         292-300           3886.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         26-62           3888.         130-1         Antigenic Index	3868.	129-1	Hydrophilicity	170-175
3871.         129-1         Hydrophilicity         238-248           3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         286-288           3885.         130-1         AMPHI         292-300           3886.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         81-84           3889.         130-1         Antigenic Index         163-	3869.	129-1	Hydrophilicity	186-190
3872.         130-1         AMPHI         12-17           3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         286-288           3885.         130-1         AMPHI         292-300           3886.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         36-62           3888.         130-1         Antigenic Index         105-112           3890.         130-1         Antigenic Index         218	3870.	129-1	Hydrophilicity	212-215
3873.         130-1         AMPHI         42-45           3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         286-288           3885.         130-1         AMPHI         292-300           3886.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         81-84           3889.         130-1         Antigenic Index         105-112           3890.         130-1         Antigenic Index         218-224           3891.         130-1         Antigenic Index	3871.	129-1	Hydrophilicity	238-248
3874.         130-1         AMPHI         58-68           3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         286-288           3885.         130-1         AMPHI         292-300           3886.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         81-84           3889.         130-1         Antigenic Index         105-112           3890.         130-1         Antigenic Index         163-174           3891.         130-1         Antigenic Index         218-224           3892.         130-1         Antigenic In	3872.	130-1	AMPHI	12-17
3875.         130-1         AMPHI         121-127           3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         286-288           3885.         130-1         AMPHI         292-300           3886.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         81-84           3889.         130-1         Antigenic Index         105-112           3890.         130-1         Antigenic Index         218-224           3891.         130-1         Antigenic Index         226-229           3893.         130-1         Antigenic Index         287-300           3894.         130-1	3873.	130-1	АМРНІ	42-45
3876.         130-1         AMPHI         164-169           3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         292-300           3886.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         56-62           3888.         130-1         Antigenic Index         105-112           3890.         130-1         Antigenic Index         163-174           3891.         130-1         Antigenic Index         218-224           3892.         130-1         Antigenic Index         226-229           3893.         130-1         Antigenic Index         287-300           3894.         130-1         Antigenic Index         319-321           3895.         130	3874.	130-1	AMPHI	58-68
3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         292-300           3885.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         56-62           3888.         130-1         Antigenic Index         81-84           3889.         130-1         Antigenic Index         105-112           3890.         130-1         Antigenic Index         218-224           3891.         130-1         Antigenic Index         226-229           3893.         130-1         Antigenic Index         287-300           3894.         130-1         Antigenic Index         319-321           3895.         130-1         Antigenic Index         351-357	3875.	130-1	AMPHI	121-127
3877.         130-1         AMPHI         204-206           3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         292-300           3885.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         56-62           3888.         130-1         Antigenic Index         81-84           3889.         130-1         Antigenic Index         105-112           3890.         130-1         Antigenic Index         218-224           3891.         130-1         Antigenic Index         226-229           3893.         130-1         Antigenic Index         287-300           3894.         130-1         Antigenic Index         319-321           3895.         130-1         Antigenic Index         351-357	3876.	130-1	AMPHI	164-169
3878.         130-1         AMPHI         218-224           3879.         130-1         AMPHI         230-232           3880.         130-1         AMPHI         236-238           3881.         130-1         AMPHI         240-243           3882.         130-1         AMPHI         252-262           3883.         130-1         AMPHI         267-276           3884.         130-1         AMPHI         292-300           3885.         130-1         Antigenic Index         22-24           3887.         130-1         Antigenic Index         56-62           3888.         130-1         Antigenic Index         81-84           3889.         130-1         Antigenic Index         105-112           3890.         130-1         Antigenic Index         218-224           3891.         130-1         Antigenic Index         226-229           3893.         130-1         Antigenic Index         287-300           3894.         130-1         Antigenic Index         319-321           3895.         130-1         Antigenic Index         351-357	3877.	130-1	AMPHI	1
3880.       130-1       AMPHI       236-238         3881.       130-1       AMPHI       240-243         3882.       130-1       AMPHI       252-262         3883.       130-1       AMPHI       267-276         3884.       130-1       AMPHI       292-300         3885.       130-1       Antigenic Index       22-24         3887.       130-1       Antigenic Index       56-62         3888.       130-1       Antigenic Index       81-84         3889.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       163-174         3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       319-321         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357	3878.	130-1	AMPHI	218-224
3881.       130-1       AMPHI       240-243         3882.       130-1       AMPHI       252-262         3883.       130-1       AMPHI       267-276         3884.       130-1       AMPHI       286-288         3885.       130-1       AMPHI       292-300         3886.       130-1       Antigenic Index       22-24         3887.       130-1       Antigenic Index       56-62         3888.       130-1       Antigenic Index       81-84         3889.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       218-224         3891.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357	3879.	130-1	АМРНІ	230-232
3882.       130-1       AMPHI       252-262         3883.       130-1       AMPHI       267-276         3884.       130-1       AMPHI       286-288         3885.       130-1       AMPHI       292-300         3886.       130-1       Antigenic Index       22-24         3887.       130-1       Antigenic Index       56-62         3888.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       163-174         3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357	3880.	130-1	AMPHI	236-238
3883.       130-1       AMPHI       267-276         3884.       130-1       AMPHI       286-288         3885.       130-1       AMPHI       292-300         3886.       130-1       Antigenic Index       22-24         3887.       130-1       Antigenic Index       56-62         3888.       130-1       Antigenic Index       81-84         3889.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       218-224         3891.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357	3881.	130-1	АМРНІ	240-243
3884.       130-1       AMPHI       286-288         3885.       130-1       AMPHI       292-300         3886.       130-1       Antigenic Index       22-24         3887.       130-1       Antigenic Index       56-62         3888.       130-1       Antigenic Index       81-84         3889.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       163-174         3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       287-300         3893.       130-1       Antigenic Index       319-321         3894.       130-1       Antigenic Index       351-357	3882.	130-1	AMPHI	252-262
3884.       130-1       AMPHI       286-288         3885.       130-1       AMPHI       292-300         3886.       130-1       Antigenic Index       22-24         3887.       130-1       Antigenic Index       81-84         3888.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       163-174         3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       287-300         3893.       130-1       Antigenic Index       319-321         3894.       130-1       Antigenic Index       351-357	3883.	130-1	AMPHI	267-276
3885.       130-1       AMPHI       292-300         3886.       130-1       Antigenic Index       22-24         3887.       130-1       Antigenic Index       56-62         3888.       130-1       Antigenic Index       81-84         3889.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       163-174         3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       319-321         3894.       130-1       Antigenic Index       351-357	3884.	130-1	AMPHI	286-288
3886.       130-1       Antigenic Index       22-24         3887.       130-1       Antigenic Index       56-62         3888.       130-1       Antigenic Index       81-84         3889.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       163-174         3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357				<del></del>
3887.       130-1       Antigenic Index       56-62         3888.       130-1       Antigenic Index       81-84         3889.       130-1       Antigenic Index       105-112         3890.       130-1       Antigenic Index       163-174         3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357		130-1	Antigenic Index	22-24
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3890.       130-1       Antigenic Index       163-174         3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357	·····			
3891.       130-1       Antigenic Index       218-224         3892.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357				
3892.       130-1       Antigenic Index       226-229         3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357		<u> </u>		
3893.       130-1       Antigenic Index       287-300         3894.       130-1       Antigenic Index       319-321         3895.       130-1       Antigenic Index       351-357				
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3990.	132-1	Hydrophilicity	428-436
3991.	132-1	Hydrophilicity	452-458
3992.	133-1	АМРНІ	6-9
3993.	133-1	AMPHI	39-53
3994.	133-1	AMPHI	75-90
3995.	133-1	АМРНІ	97-102
3996.	133-1	AMPHI	111-117
3997.	133-1	AMPHI	126-137
3998.	133-1	AMPHI	155-158
3999.	133-1	АМРНІ	161-164
4000.	133-1	АМРНІ	180-183
4001.	133-1	АМРНІ	207-216
4002.	133-1	АМРНІ	241-246
4003.	133-1	АМРНІ	256-274
4004.	133-1	AMPHI	293-299
4005.	133-1	АМРНІ	309-316
4006.	133-1	АМРНІ	359-398
4007.	133-1	AMPHI	437-443
4008.	133-1	АМРНІ	460-463
4009.	133-1	АМРНІ	473-475
4010.	133-1	AMPHI	505-509
4011.	133-1	АМРНІ	523-525
4012.	133-1	AMPHI	527-532
4013.	133-1	AMPHI	535-538
4014.	133-1	АМРНІ	549-555
4015.	133-1	AMPHI	561-569
4016.	133-1	АМРНІ	574-582
4017.	133-1	AMPHI	589-592
4018.	133-1	AMPHI	623-637
4019.	133-1	AMPHI	644-647
4020.	133-1	AMPHI	659-664
4021.	133-1	AMPHI	677-685
4022.	133-1	AMPHI	691-706
4022.	133-1	AMPHI	708-710
4024.	133-1	AMPHI	715-728
4024.	133-1	AMPHI	747-760
4025.	133-1	AMPHI	765-789
			797-801
4027.	133-1	AMPHI	
4028.	133-1	AMPHI	814-817
4029.	133-1	AMPHI	821-830

1020	1100.1	4.3.4D144	026 020
4030.	133-1	AMPHI	836-838
4031.	133-1	AMPHI	868-876
4032.	133-1	Antigenic Index	10-47
4033.	133-1	Antigenic Index	50-52
4034.	133-1	Antigenic Index	55-62
4035.	133-1	Antigenic Index	67-75
4036.	133-1	Antigenic Index	90-104
4037.	133-1	Antigenic Index	106-112
4038.	133-1	Antigenic Index	117-128
4039.	133-1	Antigenic Index	133-138
4040.	133-1	Antigenic Index	141-143
4041.	133-1	Antigenic Index	145-152
4042.	133-1	Antigenic Index	160-170
4043.	133-1	Antigenic Index	178-184
4044.	133-1	Antigenic Index	190-201
4045.	133-1	Antigenic Index	203-209
4046.	133-1	Antigenic Index	212-214
4047.	133-1	Antigenic Index	217-226
4048.	133-1	Antigenic Index	230-282
4049.	133-1	Antigenic Index	286-299
4050.	133-1	Antigenic Index	301-308
4051.	133-1	Antigenic Index	312-333
4052.	133-1	Antigenic Index	343-345
4053.	133-1	Antigenic Index	353-365
4054.	133-1	Antigenic Index	373-400
4055.	133-1	Antigenic Index	409-420
4056.	133-1	Antigenic Index	427-434
4057.	133-1	Antigenic Index	441-454
4058.	133-1	Antigenic Index	459-461
4059.	133-1	Antigenic Index	472-478
4060.	133-1	Antigenic Index	482-484
4061.	133-1	Antigenic Index	491-525
4062.	133-1	Antigenic Index	530-543
4063.	133-1	Antigenic Index	548-553
4064.	133-1	Antigenic Index	557-569
4065.	133-1	Antigenic Index	576-582
4066.	133-1	Antigenic Index	586-595
4067.	133-1	Antigenic Index	598-613
4068.	133-1	Antigenic Index	618-625
4069.	133-1	Antigenic Index	636-644
4070.	133-1	Antigenic Index	655-670
4071.	133-1	Antigenic Index	672-676
4071.	133-1	Antigenic Index  Antigenic Index	686-716
4072.	133-1	Antigenic Index	723-743
40/3.	1133-1	Anngeme maex	143-143

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4074.	133-1	Antigenic Index	750-790
4075.	133-1	Antigenic Index	800-808
4076.	133-1	Antigenic Index	812-834
4077.	133-1	Antigenic Index	839-870
4078.	133-1	Antigenic Index	874-879
4079.	133-1	Antigenic Index	885-888
4080.	133-1	Hydrophilicity	10-47
4081.	133-1	Hydrophilicity	55-62
4082.	133-1	Hydrophilicity	68-74
4083.	133-1	Hydrophilicity	93-100
4084.	133-1	Hydrophilicity	117-120
4085.	133-1	Hydrophilicity	141-143
4086.	133-1	Hydrophilicity	145-148
4087.	133-1	Hydrophilicity	164-170
4088.	133-1	Hydrophilicity	178-181
4089.	133-1	Hydrophilicity	192-197
4090.	133-1	Hydrophilicity	217-226
4091.	133-1	Hydrophilicity	230-232
4092.	133-1	Hydrophilicity	234-251
4093.	133-1	Hydrophilicity	262-278
4094.	133-1	Hydrophilicity	288-296
4095.	133-1	Hydrophilicity	303-305
4096.	133-1	Hydrophilicity	314-321
4097.	133-1	Hydrophilicity	323-330
4098.	133-1	Hydrophilicity	354-365
4099.	133-1	Hydrophilicity	373-377
4100.	133-1	Hydrophilicity	382-385
4101.	133-1	Hydrophilicity	393-400
4102.	133-1	Hydrophilicity	412-420
4103.	133-1	Hydrophilicity	428-433
4104.	133-1	Hydrophilicity	442-449
4105.	133-1	Hydrophilicity	472-478
4106.	133-1	Hydrophilicity	500-522
4107.	133-1	Hydrophilicity	530-541
4108.	133-1	Hydrophilicity	562-565
4109.	133-1	Hydrophilicity	586-592
4110.	133-1	Hydrophilicity	600-602
4111.	133-1	Hydrophilicity	604-613
4111.	133-1	Hydrophilicity	618-624
4113.	133-1	Hydrophilicity	657-668
4114.	133-1	Hydrophilicity	689-692
4115.	133-1	Hydrophilicity	695-713
4115.	133-1	Hydrophilicity	723-733
	133-1		754-765
4117.	133-1	Hydrophilicity	1/34-/03

4118.         133-1         Hydrophilicity         777-790           4119.         133-1         Hydrophilicity         802-808           4120.         133-1         Hydrophilicity         812-814           4121.         133-1         Hydrophilicity         816-824           4122.         133-1         Hydrophilicity         826-834           4123.         133-1         Hydrophilicity         862-867           4125.         133-1         Hydrophilicity         875-879           4126.         134-1         AMPHI         12-19           4127.         134-1         AMPHI         21-33           4128.         134-1         AMPHI         37-48           4129.         134-1         AMPHI         109-112           4130.         134-1         AMPHI         109-112           4131.         134-1         AMPHI         227-235           4132.         134-1         AMPHI         227-235           4133.         134-1         AMPHI         262-264           4134.         134-1         AMPHI         262-264           4135.         134-1         AMPHI         335-337           4136.         134-1 <td< th=""><th>r</th><th><del>-</del></th><th></th><th><del></del></th></td<>	r	<del>-</del>		<del></del>
Hydrophilicity   Reference   Hydrophilicity   Reference   Refere	4118.	133-1	Hydrophilicity	777-790
4121.   133-1   Hydrophilicity   826-834     4122.   133-1   Hydrophilicity   826-834     4123.   133-1   Hydrophilicity   841-859     4124.   133-1   Hydrophilicity   862-867     4125.   133-1   Hydrophilicity   875-879     4126.   134-1   AMPHI   12-19     4127.   134-1   AMPHI   12-19     4128.   134-1   AMPHI   109-112     4130.   134-1   AMPHI   109-112     4130.   134-1   AMPHI   196-205     4131.   134-1   AMPHI   27-235     4132.   134-1   AMPHI   268-259     4133.   134-1   AMPHI   268-271     4134.   134-1   AMPHI   335-337     4135.   134-1   AMPHI   335-337     4136.   134-1   AMPHI   339-344     4137.   134-1   AMPHI   339-344     4138.   134-1   AMPHI   31-357     4138.   134-1   AMPHI   31-357     4139.   134-1   Antigenic Index   9-13     4140.   134-1   Antigenic Index   99-107     4141.   134-1   Antigenic Index   99-107     4142.   134-1   Antigenic Index   99-107     4144.   134-1   Antigenic Index   99-107     4145.   134-1   Antigenic Index   91-97     4146.   134-1   Antigenic Index   118-141     4147.   134-1   Antigenic Index   118-141     4148.   134-1   Antigenic Index   177-188     4149.   134-1   Antigenic Index   177-188     4149.   134-1   Antigenic Index   104-171     4150.   134-1   Antigenic Index   104-171     4151.   134-1   Antigenic Index   104-171     4152.   134-1   Antigenic Index   104-171     4153.   134-1   Antigenic Index   104-171     4154.   134-1   Antigenic Index   104-171     4155.   134-1   Antigenic Index   104-171     4156.   134-1   Antigenic Index   204-212     4151.   134-1   Antigenic Index   204-212     4152.   134-1   Antigenic Index   204-212     4153.   134-1   Antigenic Index   204-212     4154.   134-1   Antigenic Index   204-212     4155.   134-1   Antigenic Index   204-212     4156.   134-1   Antigenic Index   372-378     4158.   134-1   Antigenic Index   372-378     4156.   134-1   Antigenic Index   372-378	4119.	133-1	Hydrophilicity	802-808
4122.         133-1         Hydrophilicity         826-834           4123.         133-1         Hydrophilicity         841-859           4124.         133-1         Hydrophilicity         862-867           4125.         133-1         Hydrophilicity         875-879           4126.         134-1         AMPHI         12-19           4127.         134-1         AMPHI         21-33           4128.         134-1         AMPHI         109-112           4130.         134-1         AMPHI         1196-205           4131.         134-1         AMPHI         196-205           4131.         134-1         AMPHI         227-235           4132.         134-1         AMPHI         262-254           4133.         134-1         AMPHI         262-264           4134.         134-1         AMPHI         335-337           4136.         134-1         AMPHI         335-337           4136.         134-1         AMPHI         339-344           4137.         134-1         AMPHI         339-344           4137.         134-1         AMPHI         339-344           4138.         134-1         Antigenic Index	4120.	133-1	Hydrophilicity	812-814
4123.   133-1   Hydrophilicity   841-859     4124.   133-1   Hydrophilicity   862-867     4125.   133-1   Hydrophilicity   875-879     4126.   134-1   AMPHI   12-19     4127.   134-1   AMPHI   37-48     4128.   134-1   AMPHI   109-112     4130.   134-1   AMPHI   196-205     4131.   134-1   AMPHI   227-235     4132.   134-1   AMPHI   248-259     4133.   134-1   AMPHI   262-264     4134.   134-1   AMPHI   268-271     4135.   134-1   AMPHI   335-337     4136.   134-1   AMPHI   339-344     4137.   134-1   AMPHI   339-344     4138.   134-1   AMPHI   351-357     4138.   134-1   AMPHI   351-357     4139.   134-1   Antigenic Index   9-13     4140.   134-1   Antigenic Index   49-51     4141.   134-1   Antigenic Index   91-97     4142.   134-1   Antigenic Index   91-97     4144.   134-1   Antigenic Index   91-97     4145.   134-1   Antigenic Index   118-141     4146.   134-1   Antigenic Index   118-141     4147.   134-1   Antigenic Index   118-141     4148.   134-1   Antigenic Index   118-141     4149.   134-1   Antigenic Index   118-141     4140.   134-1   Antigenic Index   118-141     4141.   134-1   Antigenic Index   118-141     4142.   134-1   Antigenic Index   118-141     4144.   134-1   Antigenic Index   118-141     4145.   134-1   Antigenic Index   118-141     4146.   134-1   Antigenic Index   118-141     4147.   134-1   Antigenic Index   118-141     4148.   134-1   Antigenic Index   118-141     4149.   134-1   Antigenic Index   118-141     4150.   134-1   Antigenic Index   124-231     4151.   134-1   Antigenic Index   243-261     4153.   134-1   Antigenic Index   243-261     4155.   134-1   Antigenic Index   345-349     4157.   134-1   Antigenic Index   345-349     4158.   134-1   Antigenic Index   345-349     4159.   134-1   Antigenic Index   385-388     4150.   134-1   Hydrophilicity   9-13	4121.	133-1	Hydrophilicity	816-824
Hydrophilicity   R62-867	4122.	133-1	Hydrophilicity	826-834
4125.   133-1   Hydrophilicity   875-879   4126.   134-1   AMPHI   12-19   4127.   134-1   AMPHI   37-48   4128.   134-1   AMPHI   109-112   4130.   134-1   AMPHI   196-205   4131.   134-1   AMPHI   248-259   4132.   134-1   AMPHI   262-264   4134.   134-1   AMPHI   268-271   4135.   134-1   AMPHI   335-337   4136.   134-1   AMPHI   335-337   4136.   134-1   AMPHI   339-344   4137.   134-1   AMPHI   339-344   4137.   134-1   AMPHI   351-357   4138.   134-1   AMPHI   351-357   4138.   134-1   AMPHI   351-357   4140.   134-1   Antigenic Index   9-13   4140.   134-1   Antigenic Index   49-51   4141.   134-1   Antigenic Index   49-51   4142.   134-1   Antigenic Index   91-97   4144.   134-1   Antigenic Index   91-97   4144.   134-1   Antigenic Index   91-97   4145.   134-1   Antigenic Index   91-97   4145.   134-1   Antigenic Index   118-141   4146.   134-1   Antigenic Index   118-141   4146.   134-1   Antigenic Index   118-141   4147.   134-1   Antigenic Index   118-141   4146.   134-1   Antigenic Index   127-188   4149.   134-1   Antigenic Index   124-231   4150.   134-1   Antigenic Index   233-240   4151.   134-1   Antigenic Index   233-240   4155.   134-1   Antigenic Index   233-240   4155.   134-1   Antigenic Index   233-240   4155.   134-1   Antigenic Index   345-349   4157.   134-1   Antigenic Index   345-349   4157.   134-1   Antigenic Index   345-349   4157.   134-1   Antigenic Index   385-388   4159.   134-1   Antigenic Index   385-388   4159	4123.	133-1	Hydrophilicity	841-859
4126.   134-1   AMPHI   12-19   4127.   134-1   AMPHI   21-33   4128.   134-1   AMPHI   109-112   4130.   134-1   AMPHI   196-205   4131.   134-1   AMPHI   227-235   4132.   134-1   AMPHI   248-259   4133.   134-1   AMPHI   268-271   4134.   134-1   AMPHI   268-271   4135.   134-1   AMPHI   335-337   4136.   134-1   AMPHI   335-337   4136.   134-1   AMPHI   335-337   4136.   134-1   AMPHI   335-337   4137.   134-1   AMPHI   351-357   4138.   134-1   AMPHI   351-357   4138.   134-1   Antigenic Index   9-13   4140.   134-1   Antigenic Index   49-51   4141.   134-1   Antigenic Index   49-51   4141.   134-1   Antigenic Index   57-70   4142.   134-1   Antigenic Index   91-97   4144.   134-1   Antigenic Index   99-107   4145.   134-1   Antigenic Index   118-14   4146.   134-1   Antigenic Index   118-14   4146.   134-1   Antigenic Index   118-14   4145.   134-1   Antigenic Index   118-14   4146.   134-1   Antigenic Index   118-14   4147.   134-1   Antigenic Index   147-161   4147.   134-1   Antigenic Index   147-161   4148.   134-1   Antigenic Index   147-161   4149.   134-1   Antigenic Index   147-161   4150.   134-1   Antigenic Index   147-188   4149.   134-1   Antigenic Index   147-188   4149.   134-1   Antigenic Index   204-212   4151.   134-1   Antigenic Index   233-240   4152.   134-1   Antigenic Index   233-240   4153.   134-1   Antigenic Index   233-240   4154.   134-1   Antigenic Index   233-240   4155.   134-1   Antigenic Index   345-349   4157.   134-1   Antigenic Index   345-349   4157.   134-1   Antigenic Index   372-378   4150.   134-1   Antigenic Index   372-378   4150.	4124.	133-1	Hydrophilicity	862-867
4127.   134-1   AMPHI   21-33   4128.   134-1   AMPHI   37-48   4129.   134-1   AMPHI   109-112   4130.   134-1   AMPHI   196-205   4131.   134-1   AMPHI   227-235   4132.   134-1   AMPHI   262-264   4134.   134-1   AMPHI   268-271   4135.   134-1   AMPHI   335-337   4136.   134-1   AMPHI   335-337   4136.   134-1   AMPHI   335-337   4136.   134-1   AMPHI   351-357   4138.   134-1   AMPHI   351-357   4138.   134-1   AMPHI   351-357   4138.   134-1   AMPHI   351-357   4149.   134-1   Antigenic Index   9-13   4140.   134-1   Antigenic Index   49-51   4141.   134-1   Antigenic Index   49-51   4142.   134-1   Antigenic Index   47-70   4144.   134-1   Antigenic Index   99-107   4144.   134-1   Antigenic Index   99-107   4144.   134-1   Antigenic Index   118-14   4146.   134-1   Antigenic Index   117-188   4149.   134-1   Antigenic Index   147-161   4147.   134-1   Antigenic Index   177-188   4149.   134-1   Antigenic Index   177-188   4149.   134-1   Antigenic Index   204-212   4151.   134-1   Antigenic Index   214-231   4152.   134-1   Antigenic Index   214-231   4152.   134-1   Antigenic Index   243-261   4153.   134-1   Antigenic Index   243-261   4154.   134-1   Antigenic Index   243-261   4155.   134-1   Antigenic Index   243-261   4155.   134-1   Antigenic Index   243-261   4155.   134-1   Antigenic Index   345-349   4157.   134-1   Antigenic Index   372-378   4158.   134-1   Antigenic Index   372-378   4158.   134-1   Antigenic Index   372-378   4158.   134-1   Antigenic Index   372-378   4159.   134-1   Antigenic Index   372-378   415	4125.	133-1	Hydrophilicity	875-879
4128.   134-1   AMPHI   109-112   134-1   AMPHI   109-112   134-1   AMPHI   196-205   134-1   AMPHI   127-235   134-1   AMPHI   227-235   14132.   134-1   AMPHI   248-259   14133.   134-1   AMPHI   262-264   14134.   134-1   AMPHI   268-271   14135.   134-1   AMPHI   335-337   14136.   134-1   AMPHI   339-344   14137.   134-1   AMPHI   351-357   14138.   134-1   AMPHI   351-357   14138.   134-1   Antigenic Index   9-13   1414.   134-1   Antigenic Index   49-51   1414.   134-1   Antigenic Index   49-51   1414.   134-1   Antigenic Index   49-51   1414.   134-1   Antigenic Index   73-85   1414.   134-1   Antigenic Index   91-97   1414.   134-1   Antigenic Index   99-107   1414.   134-1   Antigenic Index   118-141   1416.   134-1   Antigenic Index   118-141   1416.   134-1   Antigenic Index   147-161   1417.   134-1   Antigenic Index   147-161   1418.   134-1   Antigenic Index   147-188   1419.   134-1   Antigenic Index   177-188   1419.   134-1   Antigenic Index   177-188   1419.   134-1   Antigenic Index   127-188   1419.   134-1   Antigenic Index   124-231   1452.   134-1   Antigenic Index   214-231   1452.   134-1   Antigenic Index   214-231   1453.   134-1   Antigenic Index   243-261   1454.   134-1   Antigenic Index   243-261   1455.   134-1   Antigenic Index   345-349   1456.   134-1   Antigenic Index   345-349   1459.   134-1   Antigenic Index   345-349   1459.   134-1   Antigenic Index   385-388   1459.   134-1   Antigenic Index   36-46	4126.	134-1	АМРНІ	12-19
4129.   134-1   AMPHI   109-112   130.   134-1   AMPHI   196-205   1314-1   AMPHI   227-235   14131.   134-1   AMPHI   248-259   14132.   134-1   AMPHI   262-264   14134.   134-1   AMPHI   268-271   14135.   134-1   AMPHI   335-337   14136.   134-1   AMPHI   335-337   14136.   134-1   AMPHI   335-337   14136.   134-1   AMPHI   351-357   14138.   134-1   AMPHI   351-357   14138.   134-1   Antigenic Index   9-13   1414.   134-1   Antigenic Index   49-51   1414.   134-1   Antigenic Index   49-51   1414.   134-1   Antigenic Index   57-70   14142.   134-1   Antigenic Index   73-85   14133.   134-1   Antigenic Index   91-97   14144.   134-1   Antigenic Index   99-107   14145.   134-1   Antigenic Index   118-141   1416.   134-1   Antigenic Index   147-161   1417.   134-1   Antigenic Index   147-161   1417.   134-1   Antigenic Index   147-188   1419.   134-1   Antigenic Index   194-197   1418.   134-1   Antigenic Index   194-197   14150.   134-1   Antigenic Index   204-212   14151.   134-1   Antigenic Index   204-212   14151.   134-1   Antigenic Index   214-231   14152.   134-1   Antigenic Index   233-240   14153.   134-1   Antigenic Index   243-261   1454.   134-1   Antigenic Index   243-261   1454.   134-1   Antigenic Index   243-261   1455.   134-1   Antigenic Index   243-261   1456.   134-1   Antigenic Index   243-261   1457.   134-1   Antigenic Index   243-261   1458.   134-1   Antigenic Index   345-349   1459.   134-1   Antigenic Index   345-349   1459.   134-1   Antigenic Index   372-378   1459.   134-1   Antigenic Index   372-378   1459.   134-1   Antigenic Index   372-378   1459.   134-1   Antigenic Index   385-388   14	4127.	134-1	AMPHI	21-33
4130.   134-1   AMPHI   196-205     4131.   134-1   AMPHI   227-235     4132.   134-1   AMPHI   248-259     4133.   134-1   AMPHI   262-264     4134.   134-1   AMPHI   268-271     4135.   134-1   AMPHI   335-337     4136.   134-1   AMPHI   335-337     4136.   134-1   AMPHI   351-357     4138.   134-1   AMPHI   351-357     4138.   134-1   Antigenic Index   9-13     4140.   134-1   Antigenic Index   49-51     4141.   134-1   Antigenic Index   49-51     4142.   134-1   Antigenic Index   73-85     4143.   134-1   Antigenic Index   91-97     4144.   134-1   Antigenic Index   99-107     4145.   134-1   Antigenic Index   99-107     4146.   134-1   Antigenic Index   118-141     4146.   134-1   Antigenic Index   147-161     4147.   134-1   Antigenic Index   165-172     4148.   134-1   Antigenic Index   165-172     4149.   134-1   Antigenic Index   194-197     4150.   134-1   Antigenic Index   194-197     4150.   134-1   Antigenic Index   194-197     4150.   134-1   Antigenic Index   204-212     4151.   134-1   Antigenic Index   214-231     4152.   134-1   Antigenic Index   233-240   4153.   134-1   Antigenic Index   243-261   4154.   134-1   Antigenic Index   243-261   4155.   134-1   Antigenic Index   243-261   4155.   134-1   Antigenic Index   243-261   4156.   134-1   Antigenic Index   243-261   4157.   134-1   Antigenic Index   345-349   4158.   134-1   Antigenic Index   345-349   4159.   134-1   Antigenic Ind	4128.	134-1	АМРНІ	37-48
4131.       134-1       AMPHI       227-235         4132.       134-1       AMPHI       248-259         4133.       134-1       AMPHI       262-264         4134.       134-1       AMPHI       268-271         4135.       134-1       AMPHI       335-337         4136.       134-1       AMPHI       339-344         4137.       134-1       AMPHI       331-357         4138.       134-1       AMPHI       351-357         4139.       134-1       Antigenic Index       9-13         4139.       134-1       Antigenic Index       49-51         4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       73-85         4143.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       118-141         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1	4129.	134-1	АМРНІ	109-112
4132.         134-1         AMPHI         248-259           4133.         134-1         AMPHI         262-264           4134.         134-1         AMPHI         268-271           4135.         134-1         AMPHI         335-337           4136.         134-1         AMPHI         339-344           4137.         134-1         AMPHI         351-357           4138.         134-1         Antigenic Index         9-13           4139.         134-1         Antigenic Index         34-47           4140.         134-1         Antigenic Index         34-47           4140.         134-1         Antigenic Index         49-51           4141.         134-1         Antigenic Index         57-70           4142.         134-1         Antigenic Index         91-97           4143.         134-1         Antigenic Index         99-107           4144.         134-1         Antigenic Index         118-141           4145.         134-1         Antigenic Index         147-161           4147.         134-1         Antigenic Index         177-188           4149.         134-1         Antigenic Index         204-212           4151.<	4130.	134-1	AMPHI	196-205
4133.       134-1       AMPHI       262-264         4134.       134-1       AMPHI       268-271         4135.       134-1       AMPHI       335-337         4136.       134-1       AMPHI       339-344         4137.       134-1       AMPHI       351-357         4138.       134-1       Antigenic Index       9-13         4139.       134-1       Antigenic Index       34-47         4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       73-85         4143.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       99-107         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152. <td>4131.</td> <td>134-1</td> <td>АМРНІ</td> <td>227-235</td>	4131.	134-1	АМРНІ	227-235
4134.       134-1       AMPHI       268-271         4135.       134-1       AMPHI       335-337         4136.       134-1       AMPHI       339-344         4137.       134-1       AMPHI       351-357         4138.       134-1       Antigenic Index       9-13         4139.       134-1       Antigenic Index       34-47         4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       91-97         4143.       134-1       Antigenic Index       99-107         4144.       134-1       Antigenic Index       118-141         4145.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       177-188         4148.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       243-261         <	4132.	134-1	AMPHI	248-259
4135.       134-1       AMPHI       335-337         4136.       134-1       AMPHI       339-344         4137.       134-1       AMPHI       351-357         4138.       134-1       Antigenic Index       9-13         4139.       134-1       Antigenic Index       34-47         4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       91-97         4143.       134-1       Antigenic Index       99-107         4144.       134-1       Antigenic Index       118-141         4145.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       147-188         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       223-240         4153.       134-1       Antigenic Index       288-297 <t< td=""><td>4133.</td><td>134-1</td><td>АМРНІ</td><td>262-264</td></t<>	4133.	134-1	АМРНІ	262-264
4136.       134-1       AMPHI       339-344         4137.       134-1       AMPHI       351-357         4138.       134-1       Antigenic Index       9-13         4139.       134-1       Antigenic Index       34-47         4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       91-97         4143.       134-1       Antigenic Index       99-107         4144.       134-1       Antigenic Index       118-141         4145.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       243-261         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       345-349 </td <td>4134.</td> <td>134-1</td> <td>АМРНІ</td> <td>268-271</td>	4134.	134-1	АМРНІ	268-271
4137.       134-1       AMPHI       351-357         4138.       134-1       Antigenic Index       9-13         4139.       134-1       Antigenic Index       34-47         4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       91-97         4143.       134-1       Antigenic Index       99-107         4144.       134-1       Antigenic Index       118-141         4145.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       243-261         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       345-349 </td <td>4135.</td> <td>134-1</td> <td>AMPHI</td> <td>335-337</td>	4135.	134-1	AMPHI	335-337
4137.       134-1       Antigenic Index       9-13         4138.       134-1       Antigenic Index       34-47         4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       73-85         4143.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       99-107         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       243-261         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       372-378         4156.       134-1       Antigenic Index       3	4136.	134-1	АМРНІ	339-344
4139.       134-1       Antigenic Index       34-47         4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       73-85         4143.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       99-107         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       243-261         4153.       134-1       Antigenic Index       288-297         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index <t< td=""><td>4137.</td><td>134-1</td><td>АМРНІ</td><td>351-357</td></t<>	4137.	134-1	АМРНІ	351-357
4140.       134-1       Antigenic Index       49-51         4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       73-85         4143.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       99-107         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       345-349         4156.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index	4138.	134-1	Antigenic Index	9-13
4141.       134-1       Antigenic Index       57-70         4142.       134-1       Antigenic Index       73-85         4143.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       99-107         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       243-261         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       345-349         4156.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity	4139.	134-1	Antigenic Index	34-47
4142.       134-1       Antigenic Index       73-85         4143.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       99-107         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       <	4140.	134-1	Antigenic Index	49-51
4143.       134-1       Antigenic Index       91-97         4144.       134-1       Antigenic Index       99-107         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4141.	134-1	Antigenic Index	57-70
4144.       134-1       Antigenic Index       99-107         4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4142.	134-1	Antigenic Index	73-85
4145.       134-1       Antigenic Index       118-141         4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       288-297         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4143.	134-1	Antigenic Index	91-97
4146.       134-1       Antigenic Index       147-161         4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       372-378         4157.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4144.	134-1	Antigenic Index	99-107
4147.       134-1       Antigenic Index       165-172         4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4145.	134-1	Antigenic Index	118-141
4148.       134-1       Antigenic Index       177-188         4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       301-308         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4146.	134-1	Antigenic Index	147-161
4149.       134-1       Antigenic Index       194-197         4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       288-297         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4147.	134-1	Antigenic Index	165-172
4150.       134-1       Antigenic Index       204-212         4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       288-297         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4148.	134-1	Antigenic Index	177-188
4151.       134-1       Antigenic Index       214-231         4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       288-297         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4149.	134-1	Antigenic Index	194-197
4152.       134-1       Antigenic Index       233-240         4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       288-297         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4150.	134-1	Antigenic Index	204-212
4153.       134-1       Antigenic Index       243-261         4154.       134-1       Antigenic Index       288-297         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4151.	134-1	Antigenic Index	214-231
4154.       134-1       Antigenic Index       288-297         4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4152.	134-1	Antigenic Index	233-240
4155.       134-1       Antigenic Index       301-308         4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4153.	134-1	Antigenic Index	243-261
4156.       134-1       Antigenic Index       345-349         4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4154.	134-1	Antigenic Index	288-297
4157.       134-1       Antigenic Index       372-378         4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4155.	134-1	Antigenic Index	301-308
4158.       134-1       Antigenic Index       385-388         4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4156.	134-1	Antigenic Index	345-349
4159.       134-1       Hydrophilicity       9-13         4160.       134-1       Hydrophilicity       36-46	4157.	134-1	Antigenic Index	372-378
4160. 134-1 Hydrophilicity 36-46	4158.	134-1	Antigenic Index	385-388
	4159.	134-1	Hydrophilicity	9-13
4161.   134-1   Hydrophilicity   60-70	4160.	134-1	Hydrophilicity	36-46
	4161.	134-1	Hydrophilicity	60-70

4162.   134-1   Hydrophilicity   73-81     4163.   134-1   Hydrophilicity   102-106     4164.   134-1   Hydrophilicity   121-127     4165.   134-1   Hydrophilicity   129-141     4166.   134-1   Hydrophilicity   147-161     4167.   134-1   Hydrophilicity   165-171     4168.   134-1   Hydrophilicity   177-185     4169.   134-1   Hydrophilicity   204-209     4170.   134-1   Hydrophilicity   214-224     4171.   134-1   Hydrophilicity   223-231     4172.   134-1   Hydrophilicity   233-240     4173.   134-1   Hydrophilicity   234-254     4174.   134-1   Hydrophilicity   246-254     4175.   134-1   Hydrophilicity   288-297     4176.   134-1   Hydrophilicity   301-308     4177.   134-1   Hydrophilicity   315-347     4178.   134-1   Hydrophilicity   374-378     4179.   134-1   Hydrophilicity   374-378     4180.   135-1   AMPHI   20-25     4181.   135-1   AMPHI   27-31     4182.   135-1   AMPHI   27-76     4184.   135-1   AMPHI   152-165     4185.   135-1   AMPHI   167-169     4186.   135-1   AMPHI   196-214     4187.   135-1   AMPHI   218-220     4188.   135-1   AMPHI   218-220     4189.   135-1   AMPHI   229-236     4190.   135-1   AMPHI   229-236     4191.   135-1   AMPHI   229-236     4192.   135-1   AMPHI   229-236     4193.   135-1   AMPHI   228-285     4194.   135-1   Antigenic Index   28-33     4195.   135-1   Antigenic Index   38-41     4195.   135-1   Antigenic Index   59-79
4164.       134-1       Hydrophilicity       121-127         4165.       134-1       Hydrophilicity       129-141         4166.       134-1       Hydrophilicity       147-161         4167.       134-1       Hydrophilicity       165-171         4168.       134-1       Hydrophilicity       204-209         4170.       134-1       Hydrophilicity       214-224         4171.       134-1       Hydrophilicity       223-231         4172.       134-1       Hydrophilicity       233-240         4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       288-297         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       374-378         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31
4165.       134-1       Hydrophilicity       129-141         4166.       134-1       Hydrophilicity       147-161         4167.       134-1       Hydrophilicity       165-171         4168.       134-1       Hydrophilicity       177-185         4169.       134-1       Hydrophilicity       204-209         4170.       134-1       Hydrophilicity       214-224         4171.       134-1       Hydrophilicity       233-240         4172.       134-1       Hydrophilicity       233-240         4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       288-297         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       301-308         4178.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       374-378         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       47-49
4166.       134-1       Hydrophilicity       147-161         4167.       134-1       Hydrophilicity       165-171         4168.       134-1       Hydrophilicity       177-185         4169.       134-1       Hydrophilicity       204-209         4170.       134-1       Hydrophilicity       214-224         4171.       134-1       Hydrophilicity       223-231         4172.       134-1       Hydrophilicity       233-240         4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       301-308         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       374-378         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       152-165         4184.
4167.       134-1       Hydrophilicity       165-171         4168.       134-1       Hydrophilicity       177-185         4169.       134-1       Hydrophilicity       204-209         4170.       134-1       Hydrophilicity       214-224         4171.       134-1       Hydrophilicity       223-231         4172.       134-1       Hydrophilicity       233-240         4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       288-297         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       152-165         4184.       135-1       AMPHI       196-214         4185.
4169.       134-1       Hydrophilicity       204-209         4170.       134-1       Hydrophilicity       214-224         4171.       134-1       Hydrophilicity       223-231         4172.       134-1       Hydrophilicity       233-240         4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       152-165         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1
4170.       134-1       Hydrophilicity       214-224         4171.       134-1       Hydrophilicity       223-231         4172.       134-1       Hydrophilicity       233-240         4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       301-308         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       249-254         4190.       135-1       A
4171.       134-1       Hydrophilicity       223-231         4172.       134-1       Hydrophilicity       233-240         4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       301-308         4176.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI <t< td=""></t<>
4172.       134-1       Hydrophilicity       233-240         4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       288-297         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       152-165         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       Antigenic Index </td
4173.       134-1       Hydrophilicity       246-254         4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       288-297         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       268-271         4190.       135-1       AMPHI       268-271         4191.       135-1       ANPHI       280-285         4192.       135-1       Antigenic Index       <
4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       288-297         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       268-271         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9
4174.       134-1       Hydrophilicity       257-259         4175.       134-1       Hydrophilicity       288-297         4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       47-49         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       152-165         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       268-271         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9<
4176.       134-1       Hydrophilicity       301-308         4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4177.       134-1       Hydrophilicity       345-347         4178.       134-1       Hydrophilicity       374-378         4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4179.       134-1       Hydrophilicity       385-388         4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       38-41
4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4180.       135-1       AMPHI       20-25         4181.       135-1       AMPHI       27-31         4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4182.       135-1       AMPHI       47-49         4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4183.       135-1       AMPHI       72-76         4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4184.       135-1       AMPHI       152-165         4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4185.       135-1       AMPHI       167-169         4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4186.       135-1       AMPHI       196-214         4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4187.       135-1       AMPHI       218-220         4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4188.       135-1       AMPHI       229-236         4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4189.       135-1       AMPHI       249-254         4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4190.       135-1       AMPHI       268-271         4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4191.       135-1       AMPHI       280-285         4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4192.       135-1       Antigenic Index       1-9         4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
4193.       135-1       Antigenic Index       28-33         4194.       135-1       Antigenic Index       38-41
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4197. 135-1 Antigenic Index 143-151
4198. 135-1 Antigenic Index 169-182
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4200. 135-1 Antigenic Index 231-240
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4208.	135-1	Hydrophilicity	145-151
4209.	135-1	Hydrophilicity	169-175
4210.	135-1	Hydrophilicity	231-240
4211.	135-1	Hydrophilicity	287-293
4212.	135-1	Hydrophilicity	297-300
4213.	136-1	AMPHI	15-30
4214.	136-1	АМРНІ	35-43
4215.	136-1	AMPHI	52-60
4216.	136-1	АМРНІ	63-65
4217.	136-1	AMPHI	70-76
4218.	136-1	АМРНІ	95-102
4219.	136-1	АМРНІ	106-119
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4222.	136-1	АМРНІ	168-192
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4224.	136-1	Antigenic Index	1-6
4225.	136-1	Antigenic Index	56-63
4226.	136-1	Antigenic Index	98-103
4227.	136-1	Antigenic Index	126-129
4228.	136-1	Antigenic Index	147-162
4229.	136-1	Antigenic Index	166-171
4230.	136-1	Antigenic Index	197-201
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4232.	136-1	Antigenic Index	222-235
4233.	136-1	Hydrophilicity	1-6
4234.	136-1	Hydrophilicity	56-60
4235.	136-1	Hydrophilicity	98-103
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4238.	136-1	Hydrophilicity	166-171
4239.	136-1	Hydrophilicity	205-209
4240.	136-1	Hydrophilicity	223-235
4241.	137-1	AMPHI	6-13
4242.	137-1	AMPHI	21-25
4243.	137-1	AMPHI	29-38
4244.	137-1	AMPHI	40-45
4245.	137-1	AMPHI	54-58
4246.	137-1	AMPHI	60-69
4247.	137-1	AMPHI	78-80
4248.	137-1	AMPHI	82-85
4249.	137-1	AMPHI	87-91
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4250.	137-1	AMPHI	123-132
		AMPHI	141-143
4251.	137-1		
4252.	137-1	AMPHI	155-160
4253.	137-1	AMPHI	166-183
4254.	137-1	AMPHI	194-196
4255.	137-1	AMPHI	199-201
4256.	137-1	AMPHI	221-238
4257.	137-1	AMPHI	241-243
4258.	137-1	AMPHI	264-269
4259.	137-1	AMPHI	283-286
4260.	137-1	Antigenic Index	8-12
4261.	137-1	Antigenic Index	27-42
4262.	137-1	Antigenic Index	51-58
4263.	137-1	Antigenic Index	66-73
4264.	137-1	Antigenic Index	80-82
4265.	137-1	Antigenic Index	91-112
4266.	137-1	Antigenic Index	122-141
4267.	137-1	Antigenic Index	152-158
4268.	137-1	Antigenic Index	164-172
4269.	137-1	Antigenic Index	190-200
4270.	137-1	Antigenic Index	204-212
4271.	137-1	Antigenic Index	218-227
4272.	137-1	Antigenic Index	249-252
4273.	137-1	Antigenic Index	255-257
4274.	137-1	Antigenic Index	268-285
4275.	137-1	Antigenic Index	287-296
4276.	137-1	Hydrophilicity	8-12
4277.	137-1	Hydrophilicity	31-41
4278.	137-1	Hydrophilicity	53-55
4279.	137-1	Hydrophilicity	66-72
4280.	137-1	Hydrophilicity	94-112
4281.	137-1	Hydrophilicity	122-128
4282.	137-1	Hydrophilicity	131-139
4283.	137-1	Hydrophilicity	152-158
4284.	137-1	Hydrophilicity	169-172
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4286.	137-1	Hydrophilicity	218-226
4287.	137-1	Hydrophilicity	250-252
4288.	137-1	Hydrophilicity	255-257
4289.	137-1	Hydrophilicity	270-285
4289.	137-1	Hydrophilicity	287-296
4290.	138-1	AMPHI	20-35
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4293.	138-1	АМРНІ	75-78

4294.	138-1	AMPHI	89-116
4294.	138-1	AMPHI	135-138
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4296.	138-1	AMPHI	148-165
4297.	138-1	AMPHI	178-189
4298.	138-1	AMPHI_	202-204
4299.	138-1	AMPHI	210-219
4300.	138-1	AMPHI	231-234
4301.	138-1	AMPHI	247-249
4302.	138-1	AMPHI	264-266
4303.	138-1	AMPHI	282-285
4304.	138-1	Antigenic Index	10-13
4305.	138-1	Antigenic Index	39-43
4306.	138-1	Antigenic Index	50-57
4307.	138-1	Antigenic Index	64-74
4308.	138-1	Antigenic Index	79-85
4309.	138-1	Antigenic Index	92-100
4310.	138-1	Antigenic Index	114-119
4311.	138-1	Antigenic Index	131-139
4312.	138-1	Antigenic Index	150-163
4313.	138-1	Antigenic Index	165-177
4314.	138-1	Antigenic Index	183-194
4315.	138-1	Antigenic Index	199-211
4316.	138-1	Antigenic Index	219-221
4317.	138-1	Antigenic Index	233-235
4318.	138-1	Antigenic Index	243-250
4319.	138-1	Antigenic Index	258-269
4320.	138-1	Antigenic Index	274-277
4321.	138-1	Antigenic Index	293-298
4322.	138-1	Hydrophilicity	50-57
4323.	138-1	Hydrophilicity	65-73
4324.	138-1	Hydrophilicity	79-85
4325.	138-1	Hydrophilicity	92-100
4326.	138-1	Hydrophilicity	114-119
4327.	138-1	Hydrophilicity	151-163
4328.	138-1	Hydrophilicity	165-175
4329.	138-1	Hydrophilicity	183-192
4330.	138-1	Hydrophilicity	201-209
4331.	138-1	Hydrophilicity	233-235
4332.	138-1	Hydrophilicity	244-247
4333.	138-1	Hydrophilicity	258-269
4334.	138-1	Hydrophilicity	275-277
4335.	138-1	Hydrophilicity	295-297
4336.	139-1	AMPHI	7-14
4337.	139-1	AMPHI	17-23

4338.	139-1	АМРНІ	102-108
4339.	139-1	АМРНІ	143-151
4340.	139-1	AMPHI	157-172
4341.	139-1	АМРНІ	262-270
4342.	139-1	АМРНІ	294-297
4343.	139-1	AMPHI	300-309
4344.	139-1	AMPHI	314-318
4345.	139-1	АМРНІ	331-337
4346.	139-1	АМРНІ	384-389
4347.	139-1	AMPHI	396-402
4348.	139-1	АМРНІ	405-408
4349.	139-1	AMPHI	410-413
4350.	139-1	АМРНІ	447-452
4351.	139-1	AMPHI	464-471
4352.	139-1	АМРНІ	475-480
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4354.	139-1	Antigenic Index	82-84
4355.	139-1	Antigenic Index	117-124
4356.	139-1	Antigenic Index	157-160
4357.	139-1	Antigenic Index	163-166
4358.		Antigenic Index	175-177
4359.	139-1	Antigenic Index	181-184
4360.	139-1	Antigenic Index	194-196
4361.	139-1	Antigenic Index	204-210
4362.	139-1	Antigenic Index	252-259
4363.	139-1	Antigenic Index	263-270
4364.	139-1	Antigenic Index	303-305
4365.	139-1	Antigenic Index	309-314
4366.	139-1	Antigenic Index	341-347
4367.	139-1	Antigenic Index	404-410
4368.	139-1	Antigenic Index	416-419
4369.	139-1	Antigenic Index	433-439
4370.	139-1	Antigenic Index	457-463
4371.	139-1	Antigenic Index	473-481
4372.	139-1	Antigenic Index	502-513
4373.	139-1	Hydrophilicity	1-5
4374.	139-1	Hydrophilicity	120-124
4375.	139-1	Hydrophilicity	252-259
4376.	139-1	Hydrophilicity	341-347
4377.	139-1	Hydrophilicity	407-410
4378.	139-1	Hydrophilicity	433-439
4379.	139-1	Hydrophilicity	459-461
4380.	139-1	Hydrophilicity	474-481
4381.	139-1	Hydrophilicity	502-513

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4382.	140-1	АМРНІ	6-8
4383.	140-1	АМРНІ	11-13
4384.	140-1	AMPHI	36-50
4385.	140-1	AMPHI	62-69
4386.	140-1	AMPHI	73-90
4387.	140-1	АМРНІ	92-102
4388.	140-1	AMPHI	155-162
4389.	140-1	АМРНІ	186-188
4390.	140-1	AMPHI	192-194
4391.	140-1	АМРНІ	205-216
4392.	140-1	АМРНІ	221-223
4393.	140-1	АМРНІ	230-234
4394.	140-1	АМРНІ	286-292
4395.	140-1	АМРНІ	306-321
4396.	140-1	АМРНІ	330-335
4397.	140-1	АМРНІ	342-348
4398.	140-1	АМРНІ	428-432
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4401.	140-1	Antigenic Index	65-68
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4403.	140-1	Antigenic Index	104-110
4404.	140-1	Antigenic Index	140-148
4405.	140-1	Antigenic Index	169-172
4406.	140-1	Antigenic Index	179-182
4407.	140-1	Antigenic Index	200-203
4408.	140-1	Antigenic Index	208-210
4409.	140-1	Antigenic Index	219-237
4410.	140-1	Antigenic Index	264-272
4411.	140-1	Antigenic Index	297-314
4412.	140-1	Antigenic Index	328-330
4413.	140-1	Antigenic Index	337-341
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4415.	140-1	Antigenic Index	348-350
4416.	140-1	Antigenic Index	370-373
4417.	140-1	Antigenic Index	409-412
4418.	140-1	Antigenic Index	415-421
4419.	140-1	Hydrophilicity	104-110
4420.	140-1	Hydrophilicity	140-148
4421.	140-1	Hydrophilicity	208-210
4422.	140-1	Hydrophilicity	224-237
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4423.	140-1	Hydrophilicity	264-272
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4426.	140-1	Hydrophilicity	348-350
4427.	141-1	АМРНІ	13-15
4428.	141-1	АМРНІ	35-37
4429.	141-1	АМРНІ	49-58
4430.	141-1	АМРНІ	82-92
4431.	141-1	АМРНІ	97-100
4432.	141-1	АМРНІ	103-106
4433.	141-1	АМРНІ	108-110
4434.	141-1	АМРНІ	119-126
4435.	141-1	АМРНІ	137-151
4436.	141-1	АМРНІ	188-191
4437.	141-1	АМРНІ	245-263
4438.	141-1	АМРНІ	336-350
4439.	141-1	AMPHI	352-367
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4441.	141-1	AMPHI	429-433
4442.	141-1	AMPHI	458-464
4443.	141-1	АМРНІ	471-482
4444.	141-1	АМРНІ	500-504
4445.	141-1	АМРНІ	523-531
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4447.	141-1	Antigenic Index	31-34
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4450.	141-1	Antigenic Index	69-72
4451.	141-1	Antigenic Index	94-98
4452.	141-1	Antigenic Index	123-129
4453.	141-1	Antigenic Index	165-172
4454.	141-1	Antigenic Index	179-181
4455.	141-1	Antigenic Index	208-216
4456.	141-1	Antigenic Index	239-241
4457.	141-1	Antigenic Index	255-258
4458.	141-1	Antigenic Index	295-301
4459.	141-1	Antigenic Index	319-327
4460.	141-1	Antigenic Index	343-349
4461.	141-1	Antigenic Index	376-379
4462.	141-1	Antigenic Index	383-386
4463.	141-1	Antigenic Index	396-401
4464.	141-1	Antigenic Index	417-427
4465.	141-1	Antigenic Index	452-456
4466	141-1	Antigenic Index	461-465
4467.	141-1	Antigenic Index	467-480
4468.	141-1	Antigenic Index	485-491
4469.	141-1	Antigenic Index	497-499

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4470.	141-1	Antigenic Index	501-510
4471.	141-1	Antigenic Index	518-526
4472.	141-1	Antigenic Index	533-542
4473.	141-1	Antigenic Index	547-551
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4475.	141-1	Hydrophilicity	40-46
4476.	141-1	Hydrophilicity	95-98
4477.	141-1	Hydrophilicity	125-127
4478.	141-1	Hydrophilicity	166-172
4479.	141-1	Hydrophilicity	210-212
4480.	141-1	Hydrophilicity	214-216
4481.	141-1	Hydrophilicity	295-297
4482.	141-1	Hydrophilicity	322-325
4483.	141-1	Hydrophilicity	343-349
4484.	141-1	Hydrophilicity	383-386
4485.	141-1	Hydrophilicity	397-400
4486.	141-1	Hydrophilicity	418-427
4487.	141-1	Hydrophilicity	452-456
4488.	141-1	Hydrophilicity	461-465
4489.	141-1	Hydrophilicity	469-480
4490.	141-1	Hydrophilicity	488-490
4491.	141-1	Hydrophilicity	504-510
4492.	141-1	Hydrophilicity	520-523
4493.	141-1	Hydrophilicity	534-542
4494.	141-1	Hydrophilicity	547-551
4495.	142-1	AMPHI	6-8
4496.	142-1	АМРНІ	27-31
4497. ·	142-1	АМРНІ	35-43
4498.	142-1	AMPHI	64-66
4499.	142-1	AMPHI	80-93
4500.	142-1	AMPHI	109-112
4501.	142-1	АМРНІ	129-131
4502.	142-1	АМРНІ	147-151
4503.	142-1	АМРНІ	158-160
4504.	142-1	AMPHI	170-172
4505.	142-1	AMPHI	174-188
4506.	142-1	АМРНІ	204-206
4507.	142-1	AMPHI	219-224
4508.	142-1	AMPHI	238-241
4509.	142-1	AMPHI	284-286
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4516.	142-1	Antigenic Index	76-80
4517.	142-1	Antigenic Index	90-105
4518.	142-1	Antigenic Index	109-119
4519.	142-1	Antigenic Index	124-145
4520.	142-1	Antigenic Index	151-153
4521.	142-1	Antigenic Index	155-191
4522.	142-1	Antigenic Index	198-204
4523.	142-1	Antigenic Index	221-234
4524.	142-1	Antigenic Index	239-248
4525.	142-1	Antigenic Index	250-270
4526.	142-1	Antigenic Index	282-287
4527.	142-1	Antigenic Index	303-305
4528.	142-1	Antigenic Index	307-309
4529.	142-1	Antigenic Index	319-335
4530.	142-1	Hydrophilicity	1-12
4531.	142-1	Hydrophilicity	38-56
4532.	142-1	Hydrophilicity	92-96
4533.	142-1	Hydrophilicity	89-100
4534.	142-1	Hydrophilicity	109-119
4535.	142-1	Hydrophilicity	124-144
4536.	142-1	Hydrophilicity	151-153
4537.	142-1	Hydrophilicity	155-158
4538.	142-1	Hydrophilicity	160-186
4539.	142-1	Hydrophilicity	188-191
4540.	142-1	Hydrophilicity	199-201
4541.	142-1	Hydrophilicity	226-234
4542.	142-1	Hydrophilicity	242-248
4543.	142-1	Hydrophilicity	250-254
4544.	142-1	Hydrophilicity	303-305
4545.	142-1	Hydrophilicity	319-328
4546.	142-1	Hydrophilicity	330-332
4547.	143-1	AMPHI	34-38
4548.	143-1	AMPHI	40-44
4549.	143-1	AMPHI	56-61
4550.	. 143-1	АМРНІ	69-71
4551.	143-1	AMPHI	162-164
4552.	143-1	AMPHI	190-198
4553.	143-1	Antigenic Index	13-17
4554.	143-1	Antigenic Index	25-33
4555.	143-1	Antigenic Index	40-52
4556.	143-1	Antigenic Index	60-64
4557.	143-1	Antigenic Index	79-96

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4558.	143-1	Antigenic Index	102-117
4559.	143-1	Antigenic Index	127-133
4560.	143-1	Antigenic Index	140-148
4561.	143-1	Antigenic Index	157-161
4562.	143-1	Antigenic Index	164-171
4563.	143-1	Antigenic Index	190-198
4564.	143-1	Antigenic Index	206-214
4565.	143-1	Hydrophilicity	26-32
4566.	143-1	Hydrophilicity	40-52
4567.	143-1	Hydrophilicity	60-64
4568.	143-1	Hydrophilicity	81-87
4569.	143-1	Hydrophilicity	89-96
4570.	143-1	Hydrophilicity	103-107
4571.	143-1	Hydrophilicity	110-116
4572.	143-1	Hydrophilicity	127-133
4573.	143-1	Hydrophilicity	140-148
4574.	143-1	Hydrophilicity	165-170
4575.	143-1	Hydrophilicity	193-196
4576.	143-1	Hydrophilicity	209-212
4577.	144-1	AMPHI	6-11
4578.	144-1	AMPHI	27-30
4579.	144-1	AMPHI	41-75
4580.	144-1	AMPHI	84-106
4581.	144-1	AMPHI	115-130
4582.	144-1	AMPHI	175-177
4583.	144-1	AMPHI	179-185
4584.	144-1	AMPHI	191-198
4585.	144-1	AMPHI	200-202
4586.	144-1	AMPHI	213-217
4587.	144-1	AMPHI	235-246
4588.	144-1	АМРНІ	258-261
4589.	144-1	AMPHI	270-272
4590.	144-1	АМРНІ	280-284
4591.	144-1	АМРНІ	287-297
4592.	144-1	AMPHI	312-318
4593.	144-1	AMPHI	325-335
4594.	144-1	AMPHI	355-365
4595.	144-1	AMPHI	376-389
4596.	144-1	Antigenic Index	8-15
4597.	144-1	Antigenic Index	24-33
4598.	144-1	Antigenic Index	62-70
4599.	144-1	Antigenic Index	81-83
4600.	144-1	Antigenic Index  Antigenic Index	93-99
4601.	144-1	Antigenic Index	118-125

4602.	144-1	Antigenic Index	127-135
4603.	144-1	Antigenic Index	149-151
4604.	144-1	Antigenic Index	163-165
4605.	144-1	Antigenic Index	178-180
4606.	144-1	Antigenic Index	200-203
4607.	144-1	Antigenic Index	205-209
4608.	144-1	Antigenic Index	223-225
4609.	144-1	Antigenic Index	233-240
4610.	144-1	Antigenic Index	274-276
4611.	144-1	Antigenic Index	278-294
4612.	144-1	Antigenic Index	302-309
4613.	144-1	Antigenic Index	314-335
4614.	144-1	Antigenic Index	342-346
4615.	144-1	Antigenic Index	349-357
4616.	144-1	Antigenic Index	369-376
4617.	144-1	Antigenic Index	397-406
4618.	144-1	Hydrophilicity	11-15
4619.	144-1	Hydrophilicity	24-33
4620.	144-1	Hydrophilicity	65-67
4621.	144-1	Hydrophilicity	93-99
4622.	144-1		118-120
4623.	144-1	Hydrophilicity	223-225
4624.	144-1	Hydrophilicity	279-294
4625.	144-1	Hydrophilicity	302-309
4626.	144-1	Hydrophilicity	313-319
4627.	144-1	Hydrophilicity	322-335
4628.	144-1	Hydrophilicity	350-357
4629.	144-1	Hydrophilicity	369-376
4630.	144-1	Hydrophilicity	397-406
4631.	146-1	AMPHI	9-17
4632.	146-1	AMPHI	19-21
4633.	146-1	AMPHI	24-30
4634.	146-1	AMPHI	51-53
4635.	146-1	AMPHI	70-84
4636.	146-1	AMPHI	111-120
4637.	146-1	AMPHI	132-135
4638.	146-1	AMPHI	149-151
4639.	146-1	AMPHI	153-158
4640.	146-1	AMPHI	183-201
4641.	146-1	AMPHI	204-211
		AMPHI	
4642.	146-1		213-215
4643.	146-1	AMPHI	243-254
4644.	146-1	AMPHI	277-280
4645.	146-1	AMPHI	301-303

4646.	146-1	AMPHI	318-324
4647.	146-1	АМРНІ	352-355
4648.	146-1	Antigenic Index	1-9
4649.	146-1	Antigenic Index	11-24
4650.	146-1	Antigenic Index	73-79
4651.	146-1	Antigenic Index	86-89
4652.	146-1	Antigenic Index	97-103
4653.	146-1	Antigenic Index	122-127
4654.	146-1	Antigenic Index	140-148
4655.	146-1	Antigenic Index	186-219
4656.	146-1	Antigenic Index	221-239
4657.	146-1	Antigenic Index	249-255
4658.	146-1	Antigenic Index	266-281
4659.	146-1	Antigenic Index	289-292
4660.	146-1	Antigenic Index	300-320
4661.	146-1	Antigenic Index	334-341
4662.	146-1	Antigenic Index	349-364
4663.	146-1	Antigenic Index	367-375
4664.	146-1	Hydrophilicity	3-9
4665.	146-1	Hydrophilicity	17-24
4666.	146-1	Hydrophilicity	73-79
4667.	146-1	Hydrophilicity	142-147
4668.	146-1	Hydrophilicity	186-195
4669.	146-1	Hydrophilicity	198-219
4670.	146-1	Hydrophilicity	221-228
4671.	146-1	Hydrophilicity	232-238
4672.	146-1	Hydrophilicity	249-255
4673.	146-1	Hydrophilicity	266-281
4674.	146-1	Hydrophilicity	301-308
467 <u>5</u> .	146-1	Hydrophilicity	314-320
4676.	146-1	Hydrophilicity	336-341
4677.	146-1	Hydrophilicity	349-364
4678.	146-1	Hydrophilicity	367-375
4679.	147-1	АМРНІ	6-13
4680.	147-1	АМРНІ	21-29
4681.	147-1	АМРНІ	36-38
4682.	147-1	АМРНІ	54-56
4683.	147-1	АМРНІ	79-87
4684.	147-1	АМРНІ	99-102
4685.	147-1	АМРНІ	106-114
4686.	147-1	АМРНІ	132-134
4687.	147-1	АМРНІ	159-166
4688.	147-1	АМРНІ	175-188
4689.	147-1	АМРНІ	200-218

4690.	147-1	АМРНІ	245-259
4691.	147-1	АМРНІ	263-265
4692.	147-1	АМРНІ	267-269
4693.	147-1	Antigenic Index	5-14
4694.	147-1	Antigenic Index	40-52
4695.	147-1	Antigenic Index	67-80
4696.	147-1	Antigenic Index	85-87
4697.	147-1	Antigenic Index	94-101
4698.	147-1	Antigenic Index	103-118
4699.	147-1	Antigenic Index	138-142
4700.	147-1	Antigenic Index	147-160
4701.	147-1	Antigenic Index	175-180
4702.	147-1	Antigenic Index	190-197
4703.	147-1	Antigenic Index	199-205
4704.	147-1	Antigenic Index	209-214
4705.	147-1	Antigenic Index	220-230
4706.	147-1	Antigenic Index	238-252
4707.	147-1	Antigenic Index	261-267
4708.	147-1	Antigenic Index	269-271
4709.	147-1	Antigenic Index	273-281
4710.	147-1	Antigenic Index	288-291
4711.	147-1	Hydrophilicity	5-13
4712.	147-1	Hydrophilicity	40-52
4713.	147-1	Hydrophilicity	67-80
4714.	147-1	Hydrophilicity	95-99
4715.	147-1	Hydrophilicity	105-118
4716.	147-1	Hydrophilicity	152-160
4717.	147-1	Hydrophilicity	175-177
4718.	147-1	Hydrophilicity	190-197
4719.	147-1	Hydrophilicity	199-204
4720.	147-1	Hydrophilicity	220-230
4721.	147-1	Hydrophilicity	238-252
4722.	147-1	Hydrophilicity	261-263
4723.	147-1	Hydrophilicity	265-267
4724.	147-1	Hydrophilicity	269-271
4725.	147-1	Hydrophilicity	273-281
4726.	147-1	Hydrophilicity	288-291
4727.	1a-1	AMPHI	9-17
4728.	1a-1	AMPHI	53-56
4729.	1a-1	<u>AMPHI</u>	83-85
4730.	1a-1	AMPHI	160-168
4731.	1a-1	AMPHI	226-239
4732.	1a-1	AMPHI	242-247
4733.	1a-1	АМРНІ	337-341

4734.   1a-1   AMPHI   352-362   4735.   1a-1   AMPHI   402-405   4737.   1a-1   AMPHI   446-455   4738.   1a-1   AMPHI   446-455   4738.   1a-1   AMPHI   566-580   4740.   1a-1   AMPHI   566-580   4740.   1a-1   AMPHI   669-671   4742.   1a-1   AMPHI   691-696   4744.   1a-1   AMPHI   691-696   4744.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   724-733   4745.   1a-1   AMPHI   742-744   4746.   1a-1   AMPHI   742-744   4747.   1a-1   AMPHI   740-749   4747.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   788-892   4749.   1a-1   AMPHI   918-928   4750.   1a-1   AMPHI   937-939   4751.   1a-1   AMPHI   938-965   4752.   1a-1   AMPHI   996-1004   4753.   1a-1   AMPHI   1045-1050   4755.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1055-1063   4757.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1176-1185   4759.   1a-1   AMPHI   1176-1185   4760.   1a-1   AMPHI   11225-1228   4762.   1a-1   AMPHI   1225-1228   4763.   1a-1   AMPHI   1225-1228   4764.   1a-1   AMPHI   1251-1233   4765.   1a-1   AMPHI   1251-1233   4766.   1a-1   AMPHI   1251-1233   4767.   1a-1   AMPHI   1251-1233   4768.   1a-1   AMPHI   1251-1233   4769.   1a-1   AMPHI   1251-1233   4769.   1a-1   AMPHI   1251-1233   4769.   1a-1   AMPHI   1405-1408   4767.   1a-1   AMPHI   1251-120   4770.   1a-1   Antigenic Index   15-20   4771.   1a-1   Antigenic Index   15-20   4773.   1a-1   Antigenic Index   124-136   4777.   1a-1   Antigenic Index   124-136   4777.   1a-1   Antigenic Index   122-226   4777.   1a-1   Antigenic Index   122-250   4777.   1a-1   Antigenic Index   122-250				
4736.   1a-1   AMPHI   402-405   4737.   1a-1   AMPHI   446-455   4738.   1a-1   AMPHI   536-542   4739.   1a-1   AMPHI   566-580   4740.   1a-1   AMPHI   642-658   4741.   1a-1   AMPHI   669-671   4742.   1a-1   AMPHI   691-696   4743.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   724-733   4745.   1a-1   AMPHI   742-744   4746.   1a-1   AMPHI   742-744   4747.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   789-763   4749.   1a-1   AMPHI   918-928   4750.   1a-1   AMPHI   937-939   4751.   1a-1   AMPHI   937-939   4751.   1a-1   AMPHI   996-1004   4753.   1a-1   AMPHI   1045-1050   4754.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1074-1077   4758.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1176-1185   4760.   1a-1   AMPHI   1187-1193   4760.   1a-1   AMPHI   1122-1228   4762.   1a-1   AMPHI   1221-1233   4763.   1a-1   AMPHI   1221-1233   4764.   1a-1   AMPHI   1221-1233   4765.   1a-1   AMPHI   1221-1233   4765.   1a-1   AMPHI   1221-1234   4767.   1a-1   AMPHI   1251-1264   4768.   1a-1   AMPHI   1405-1408   4767.   1a-1   Antigenic Index   55-64   4769.   1a-1   Antigenic Index   55-64   4769.   1a-1   Antigenic Index   16-200   4775.   1a-1   Antigenic Index   16-200   4776.   1a-1   Antigenic Index   115-120   4776.   1a-1   Antigenic Index   140-162   4776.	4734.	1a-1	AMPHI	352-362
4737.   1a-1   AMPHI   346-455   4738.   1a-1   AMPHI   536-542   4739.   1a-1   AMPHI   566-580   4740.   1a-1   AMPHI   642-658   4741.   1a-1   AMPHI   669-671   4742.   1a-1   AMPHI   691-696   4743.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   724-733   4745.   1a-1   AMPHI   746-749   4747.   1a-1   AMPHI   746-749   4747.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   888-892   4749.   1a-1   AMPHI   918-928   4750.   1a-1   AMPHI   937-939   4751.   1a-1   AMPHI   938-965   4752.   1a-1   AMPHI   996-1004   4753.   1a-1   AMPHI   1045-1050   4754.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1074-1077   4759.   1a-1   AMPHI   1165-1172   4759.   1a-1   AMPHI   1165-1172   4759.   1a-1   AMPHI   1165-1172   4760.   1a-1   AMPHI   1165-1172   4761.   1a-1   AMPHI   1225-1228   4762.   1a-1   AMPHI   1225-1228   4763.   1a-1   AMPHI   1225-1228   4764.   1a-1   AMPHI   1231-1233   4765.   1a-1   AMPHI   1231-1233   4765.   1a-1   AMPHI   1231-1233   4765.   1a-1   AMPHI   1231-1233   4766.   1a-1   AMPHI   1251-120   4767.   1a-1   AMPHI   1370-1384   4767.   1a-1   AMPHI   1370-1384   4767.   1a-1   Antigenic Index   55-64   4769.   1a-1   Antigenic Index   55-64   4769.   1a-1   Antigenic Index   55-64   4769.   1a-1   Antigenic Index   55-64   4779.   1a-1   Antigenic Index   55-64   4779.   1a-1   Antigenic Index   55-64   4779.   1a-1   Antigenic Index   15-100   4771.   1a-1   Antigenic Index   16-200   4775.   1a-1   Antigenic Index   100-200   4776.   1a-1	4735.	1a-1	AMPHI	382-389
4738.   1a-1   AMPHI   536-542   4739.   1a-1   AMPHI   566-580   4740.   1a-1   AMPHI   642-658   4741.   1a-1   AMPHI   669-671   4742.   1a-1   AMPHI   691-696   4743.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   724-733   4745.   1a-1   AMPHI   742-744   4746.   1a-1   AMPHI   742-744   4746.   1a-1   AMPHI   746-749   4747.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   888-892   4749.   1a-1   AMPHI   918-928   4750.   1a-1   AMPHI   937-939   4751.   1a-1   AMPHI   958-965   4752.   1a-1   AMPHI   996-1004   4753.   1a-1   AMPHI   1045-1050   4755.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1166-1172   4759.   1a-1   AMPHI   1166-1220   4761.   1a-1   AMPHI   1231-1233   4760.   1a-1   AMPHI   1225-1228   4762.   1a-1   AMPHI   1225-1228   4762.   1a-1   AMPHI   1231-1233   4763.   1a-1   AMPHI   1231-1233   4764.   1a-1   AMPHI   1231-1233   4765.   1a-1   AMPHI   1231-1233   4766.   1a-1   AMPHI   1251-1264   4769.   1a-1   AMPHI   1251-1264   4769.   1a-1   AMPHI   1251-1264   4769.   1a-1   Antigenic Index   55-64   4779.   1a-1   Antigenic Index   140-162   4773.   1a-1   Antigenic Index   140-162   4774.   1a-1   Antigenic Index   140-162   4774.   1a-1   Antigenic Index   140-162   4775.   1a-1   Antigenic Index   140-162   4776.   1a-1   Antigenic Index   140-1	4736.	1a-1	АМРНІ	402-405
4739.   1a-1   AMPHI   566-580   4740.   1a-1   AMPHI   642-658   4741.   1a-1   AMPHI   669-671   4742.   1a-1   AMPHI   691-696   4743.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   724-733   4745.   1a-1   AMPHI   742-744   4746.   1a-1   AMPHI   745-744   4747.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   888-892   4749.   1a-1   AMPHI   918-928   4750.   1a-1   AMPHI   937-939   4751.   1a-1   AMPHI   958-965   4752.   1a-1   AMPHI   996-1004   4753.   1a-1   AMPHI   1045-1050   4754.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1165-1172   4760.   1a-1   AMPHI   1126-1220   4761.   1a-1   AMPHI   1225-1228   4762.   1a-1   AMPHI   1225-1228   4763.   1a-1   AMPHI   1225-1228   4764.   1a-1   AMPHI   1255-1063   4765.   1a-1   AMPHI   1255-1064   4766.   1a-1   AMPHI   1255-1228   4767.   1a-1   AMPHI   1255-1228   4768.   1a-1   AMPHI   1255-1228   4769.   1a-1   AMPHI   1255-1228   4769.   1a-1   AMPHI   1255-1206   4766.   1a-1   AMPHI   1255-1206   4767.   1a-1   AMPHI   1255-1208   4769.   1a-1   AMPHI   1255-1208   4769.   1a-1   AMPHI   1255-1208   4769.   1a-1   AMPHI   1265-1408   4767.   1a-1   Antigenic Index   55-64   4769.   1a-1   Antigenic Index   55-64   4769.   1a-1   Antigenic Index   55-64   4769.   1a-1   Antigenic Index   55-64   4779.   1a-1   Antigenic Index   140-162   4774.   1a-1   Antigenic Index   140-162   4775.   1a-1   Antigenic Index   140-162   4776.   1a-1   Antigenic Index   4776.   1a-1   Antigenic Index   4776.   1a-1   Antigenic Index   4776.   1a-1   Antigenic Index   4776.   1a-1   Antigenic	4737.	1a-1	AMPHI	446-455
4740.   1a-1   AMPHI   642-658   4741.   1a-1   AMPHI   669-671   4742.   1a-1   AMPHI   691-696   4743.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   702-705   4745.   1a-1   AMPHI   742-744   4746.   1a-1   AMPHI   746-749   4747.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   888-892   4749.   1a-1   AMPHI   918-928   4750.   1a-1   AMPHI   937-939   4751.   1a-1   AMPHI   998-1004   4752.   1a-1   AMPHI   998-1004   4753.   1a-1   AMPHI   1045-1050   4754.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1165-1172   4759.   1a-1   AMPHI   1187-1193   4760.   1a-1   AMPHI   1187-1193   4760.   1a-1   AMPHI   1206-1220   4761.   1a-1   AMPHI   1225-1228   4762.   1a-1   AMPHI   1225-1228   4763.   1a-1   AMPHI   1225-1228   4764.   1a-1   AMPHI   1293-1303   4765.   1a-1   AMPHI   1293-1303   4765.   1a-1   AMPHI   1293-1303   4766.   1a-1   AMPHI   1293-1303   4767.   1a-1   AMPHI   1370-1384   4767.   1a-1   AMPHI   1370-1384   4767.   1a-1   AMPHI   1370-1384   4767.   1a-1   AMPHI   1370-1384   4767.   1a-1   Antigenic Index   1-23   4768.   1a-1   Antigenic Index   1-23   4769.   1a-1   Antigenic Index   15-64   4770.   1a-1   Antigenic Index   15-64   4771.   1a-1   Antigenic Index   15-20   4773.   1a-1   Antigenic Index   15-20   4775.   1a-1   Antigenic Index   124-136   4774.   1a-1   Antigenic Index   140-162   4775.   1a-1   Antigenic Index   140-162   4776.   1a-1   Antigenic Index   140-162   4776.   1a-1   Antigenic Index   120-215   4776.   1a-1   Antigenic Index   120-226   4776.   1a-1   Antigenic Index   140-162   4776.   1a-1   Antigenic Index   140-162   4776.   1a-1   Antigenic Index   120-226	4738.	1a-1	АМРНІ	536-542
4741.   1a-1   AMPHI   669-671   4742.   1a-1   AMPHI   691-696   4743.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   724-733   4745.   1a-1   AMPHI   724-733   4745.   1a-1   AMPHI   746-749   4747.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   759-763   4749.   1a-1   AMPHI   918-928   4749.   1a-1   AMPHI   918-928   4750.   1a-1   AMPHI   958-965   4752.   1a-1   AMPHI   996-1004   4753.   1a-1   AMPHI   1045-1050   4754.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1165-1172   4759.   1a-1   AMPHI   1165-1172   4759.   1a-1   AMPHI   1165-1220   4761.   1a-1   AMPHI   1206-1220   4761.   1a-1   AMPHI   1223-1233   4763.   1a-1   AMPHI   1223-1233   4763.   1a-1   AMPHI   1223-1233   4764.   1a-1   AMPHI   1223-1234   4766.   1a-1   AMPHI   1231-1233   4767.   1a-1   AMPHI   1251-1234   4768.   1a-1   AMPHI   1251-1234   4766.   1a-1   AMPHI   1251-1234   4767.   1a-1   AMPHI   1273-1334   4767.   1a-1   AMPHI   1273-1334   4767.   1a-1   AMPHI   1273-1334   4768.   1a-1   AMPHI   1273-1334   4769.   1a-1   AMPHI   1405-1408   47	4739.	1a-1	AMPHI	566-580
4742.   1a-1   AMPHI   691-696   4743.   1a-1   AMPHI   702-705   4744.   1a-1   AMPHI   724-733   4745.   1a-1   AMPHI   742-744   4746.   1a-1   AMPHI   742-744   4746.   1a-1   AMPHI   746-749   4747.   1a-1   AMPHI   759-763   4748.   1a-1   AMPHI   888-892   4749.   1a-1   AMPHI   918-928   4750.   1a-1   AMPHI   937-939   4751.   1a-1   AMPHI   958-965   4752.   1a-1   AMPHI   996-1004   4753.   1a-1   AMPHI   1045-1050   4754.   1a-1   AMPHI   1055-1063   4755.   1a-1   AMPHI   1074-1077   4756.   1a-1   AMPHI   1074-1077   4758.   1a-1   AMPHI   1084-1099   4757.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1165-1172   4758.   1a-1   AMPHI   1176-1185   4760.   1a-1   AMPHI   1225-1228   4761.   1a-1   AMPHI   1225-1228   4762.   1a-1   AMPHI   1225-1228   4763.   1a-1   AMPHI   1225-1248   4764.   1a-1   AMPHI   1225-1248   4765.   1a-1   AMPHI   1231-1233   4765.   1a-1   AMPHI   1231-1233   4765.   1a-1   AMPHI   1231-1233   4765.   1a-1   AMPHI   1251-120   4761.   1a-1   AMPHI   1271-1384   4767.   1a-1   AMPHI   1271-1384   4767.   1a-1   AMPHI   1271-1384   4767.   1a-1   AMPHI   1370-1384   4767.   1a-1   Antigenic Index   55-64   4770.   1a-1   Antigenic Index   55-64   4771.   1a-1   Antigenic Index   124-136   4773.   1a-1   Antigenic Index   124-136   4773.   1a-1   Antigenic Index   140-162   4775.   1a-1   Antigenic Index   140-162   4775.   1a-1   Antigenic Index   140-162   4775.   1a-1   Antigenic Index   167-200   4775.   1a-1   Antigenic Index   167-200   4776.   1a-1   Antigenic Index   122-226	4740	1a-1	АМРНІ	642-658
4743.         Ia-1         AMPHI         702-705           4744.         Ia-1         AMPHI         724-733           4745.         Ia-1         AMPHI         742-744           4746.         Ia-1         AMPHI         746-749           4747.         Ia-1         AMPHI         759-763           4748.         Ia-1         AMPHI         888-892           4749.         Ia-1         AMPHI         918-928           4750.         Ia-1         AMPHI         937-939           4751.         Ia-1         AMPHI         958-965           4752.         Ia-1         AMPHI         996-1004           4753.         Ia-1         AMPHI         1045-1050           4754.         Ia-1         AMPHI         1055-1063           4754.         Ia-1         AMPHI         1074-1077           4756.         Ia-1         AMPHI         1074-1077           4756.         Ia-1         AMPHI         1165-1172           4759.         Ia-1         AMPHI         1176-1185           4759.         Ia-1         AMPHI         1126-1220           4761.         Ia-1         AMPHI         1223-1223	4741.	1a-1	АМРНІ	669-671
4744.         Ia-1         AMPHI         724-733           4745.         Ia-1         AMPHI         742-744           4746.         Ia-1         AMPHI         746-749           4747.         Ia-1         AMPHI         759-763           4748.         Ia-1         AMPHI         918-928           4750.         Ia-1         AMPHI         937-939           4751.         Ia-1         AMPHI         958-965           4752.         Ia-1         AMPHI         996-1004           4753.         Ia-1         AMPHI         1045-1050           4754.         Ia-1         AMPHI         1055-1063           4755.         Ia-1         AMPHI         1074-1077           4756.         Ia-1         AMPHI         1108-1099           4757.         Ia-1         AMPHI         1165-1172           4758.         Ia-1         AMPHI         1165-1172           4759.         Ia-1         AMPHI         1120-1185           4760.         Ia-1         AMPHI         1226-1220           4761.         Ia-1         AMPHI         1225-1228           4762.         Ia-1         AMPHI         1223-1303 <tr< td=""><td>4742.</td><td>1a-1</td><td>АМРНІ</td><td>691-696</td></tr<>	4742.	1a-1	АМРНІ	691-696
4745.         la-1         AMPHI         742-744           4746.         la-1         AMPHI         746-749           4747.         la-1         AMPHI         759-763           4748.         la-1         AMPHI         888-892           4749.         la-1         AMPHI         918-928           4750.         la-1         AMPHI         937-939           4751.         la-1         AMPHI         958-965           4752.         la-1         AMPHI         1045-1050           4753.         la-1         AMPHI         1055-1063           4754.         la-1         AMPHI         1074-1077           4755.         la-1         AMPHI         1074-1077           4756.         la-1         AMPHI         1165-1172           4757.         la-1         AMPHI         1165-1172           4758.         la-1         AMPHI         1176-1185           4759.         la-1         AMPHI         1127-1185           4760.         la-1         AMPHI         1225-1228           4761.         la-1         AMPHI         1231-1233           4763.         la-1         AMPHI         1231-1233 <t< td=""><td>4743.</td><td>1a-1</td><td>AMPHI</td><td>702-705</td></t<>	4743.	1a-1	AMPHI	702-705
4746.         1a-1         AMPHI         746-749           4747.         1a-1         AMPHI         759-763           4748.         1a-1         AMPHI         888-892           4749.         1a-1         AMPHI         918-928           4750.         1a-1         AMPHI         937-939           4751.         1a-1         AMPHI         996-1004           4752.         1a-1         AMPHI         996-1004           4753.         1a-1         AMPHI         1045-1050           4754.         1a-1         AMPHI         1055-1063           4755.         1a-1         AMPHI         1074-1077           4756.         1a-1         AMPHI         1084-1099           4757.         1a-1         AMPHI         1165-1172           4758.         1a-1         AMPHI         1176-1185           4759.         1a-1         AMPHI         1187-1193           4760.         1a-1         AMPHI         1206-1220           4761.         1a-1         AMPHI         1225-1228           4762.         1a-1         AMPHI         1231-1233           4763.         1a-1         AMPHI         1252-1264	4744.	1a-1	АМРНІ	724-733
4747.         1a-1         AMPHI         759-763           4748.         1a-1         AMPHI         888-892           4749.         1a-1         AMPHI         918-928           4750.         1a-1         AMPHI         937-939           4751.         1a-1         AMPHI         996-1004           4752.         1a-1         AMPHI         1996-1004           4753.         1a-1         AMPHI         1045-1050           4754.         1a-1         AMPHI         1055-1063           4755.         1a-1         AMPHI         1055-1063           4755.         1a-1         AMPHI         1074-1077           4756.         1a-1         AMPHI         1084-1099           4757.         1a-1         AMPHI         1165-1172           4758.         1a-1         AMPHI         1176-1185           4759.         1a-1         AMPHI         1187-1193           4760.         1a-1         AMPHI         1206-1220           4761.         1a-1         AMPHI         1225-1228           4762.         1a-1         AMPHI         1252-1264           4763.         1a-1         AMPHI         1252-1264	4745.	1a-1	AMPHI	742-744
4748.         1a-1         AMPHI         888-892           4749.         1a-1         AMPHI         918-928           4750.         1a-1         AMPHI         937-939           4751.         1a-1         AMPHI         958-965           4752.         1a-1         AMPHI         1045-1050           4753.         1a-1         AMPHI         1045-1050           4754.         1a-1         AMPHI         1055-1063           4755.         1a-1         AMPHI         1074-1077           4756.         1a-1         AMPHI         1084-1099           4757.         1a-1         AMPHI         1165-1172           4758.         1a-1         AMPHI         1176-1185           4759.         1a-1         AMPHI         11206-1220           4760.         1a-1         AMPHI         1220-1228           4762.         1a-1         AMPHI         1225-1228           4763.         1a-1         AMPHI         1252-1264           4764.         1a-1         AMPHI         1252-1264           4765.         1a-1         AMPHI         1293-1303           4765.         1a-1         AMPHI         1370-1384	4746.	1a-1	АМРНІ	746-749
4749.         1a-1         AMPHI         918-928           4750.         1a-1         AMPHI         937-939           4751.         1a-1         AMPHI         958-965           4752.         1a-1         AMPHI         996-1004           4753.         1a-1         AMPHI         1045-1050           4754.         1a-1         AMPHI         1055-1063           4755.         1a-1         AMPHI         1074-1077           4756.         1a-1         AMPHI         1084-1099           4757.         1a-1         AMPHI         1165-1172           4758.         1a-1         AMPHI         1176-1185           4759.         1a-1         AMPHI         1176-1185           4760.         1a-1         AMPHI         1206-1220           4761.         1a-1         AMPHI         1225-1228           4762.         1a-1         AMPHI         1231-1233           4763.         1a-1         AMPHI         1252-1264           4764.         1a-1         AMPHI         1293-1303           4765.         1a-1         AMPHI         1370-1384           4766.         1a-1         Antigenic Index         1-23	4747.	1a-1	АМРНІ	759-763
4749.         Ia-1         AMPHI         918-928           4750.         Ia-1         AMPHI         937-939           4751.         Ia-1         AMPHI         958-965           4752.         Ia-1         AMPHI         996-1004           4753.         Ia-1         AMPHI         1045-1050           4754.         Ia-1         AMPHI         1055-1063           4755.         Ia-1         AMPHI         1074-1077           4756.         Ia-1         AMPHI         1084-1099           4757.         Ia-1         AMPHI         1165-1172           4758.         Ia-1         AMPHI         1176-1185           4759.         Ia-1         AMPHI         1187-1193           4760.         Ia-1         AMPHI         1206-1220           4761.         Ia-1         AMPHI         1225-1228           4762.         Ia-1         AMPHI         1231-1233           4763.         Ia-1         AMPHI         1252-1264           4764.         Ia-1         AMPHI         1293-1303           4765.         Ia-1         AMPHI         1370-1384           4766.         Ia-1         Antigenic Index         1-23	4748.	1a-1	AMPHI	888-892
4751.       1a-1       AMPHI       958-965         4752.       1a-1       AMPHI       996-1004         4753.       1a-1       AMPHI       1045-1050         4754.       1a-1       AMPHI       1055-1063         4755.       1a-1       AMPHI       1074-1077         4756.       1a-1       AMPHI       1165-1172         4757.       1a-1       AMPHI       1176-1185         4759.       1a-1       AMPHI       1187-1193         4760.       1a-1       AMPHI       1206-1220         4761.       1a-1       AMPHI       1225-1228         4762.       1a-1       AMPHI       1231-1233         4763.       1a-1       AMPHI       1252-1264         4764.       1a-1       AMPHI       1293-1303         4765.       1a-1       AMPHI       1370-1384         4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       55-64         4770.       1a-1       Antigenic Index       115-120         4771.       1a-1       Antigenic Index       124-136     <	4749.		AMPHI	918-928
4752.         1a-1         AMPHI         996-1004           4753.         1a-1         AMPHI         1045-1050           4754.         1a-1         AMPHI         1055-1063           4755.         1a-1         AMPHI         1074-1077           4756.         1a-1         AMPHI         1084-1099           4757.         1a-1         AMPHI         1165-1172           4758.         1a-1         AMPHI         1187-1185           4759.         1a-1         AMPHI         1206-1220           4760.         1a-1         AMPHI         1225-1228           4762.         1a-1         AMPHI         1223-1233           4763.         1a-1         AMPHI         1252-1264           4764.         1a-1         AMPHI         1293-1303           4765.         1a-1         AMPHI         1370-1384           4766.         1a-1         AMPHI         1405-1408           4767.         1a-1         Antigenic Index         55-64           4769.         1a-1         Antigenic Index         95-101           4771.         1a-1         Antigenic Index         115-120           4772.         1a-1         Antigenic Index	4750.		АМРНІ	937-939
4752.         1a-1         AMPHI         996-1004           4753.         1a-1         AMPHI         1045-1050           4754.         1a-1         AMPHI         1055-1063           4755.         1a-1         AMPHI         1074-1077           4756.         1a-1         AMPHI         1084-1099           4757.         1a-1         AMPHI         1165-1172           4758.         1a-1         AMPHI         1187-1185           4759.         1a-1         AMPHI         1206-1220           4760.         1a-1         AMPHI         1225-1228           4762.         1a-1         AMPHI         1223-1233           4763.         1a-1         AMPHI         1252-1264           4764.         1a-1         AMPHI         1293-1303           4765.         1a-1         AMPHI         1370-1384           4766.         1a-1         AMPHI         1405-1408           4767.         1a-1         Antigenic Index         55-64           4769.         1a-1         Antigenic Index         95-101           4771.         1a-1         Antigenic Index         115-120           4772.         1a-1         Antigenic Index	4751.	1a-1	AMPHI	958-965
4754.       1a-1       AMPHI       1055-1063         4755.       1a-1       AMPHI       1074-1077         4756.       1a-1       AMPHI       1084-1099         4757.       1a-1       AMPHI       1165-1172         4758.       1a-1       AMPHI       1176-1185         4759.       1a-1       AMPHI       1187-1193         4760.       1a-1       AMPHI       1206-1220         4761.       1a-1       AMPHI       1225-1228         4762.       1a-1       AMPHI       1231-1233         4763.       1a-1       AMPHI       1252-1264         4764.       1a-1       AMPHI       1252-1264         4765.       1a-1       AMPHI       1293-1303         4766.       1a-1       AMPHI       1370-1384         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       1		la-l	AMPHI	996-1004
4755.         1a-1         AMPHI         1074-1077           4756.         1a-1         AMPHI         1084-1099           4757.         1a-1         AMPHI         1165-1172           4758.         1a-1         AMPHI         1176-1185           4759.         1a-1         AMPHI         1187-1193           4760.         1a-1         AMPHI         1206-1220           4761.         1a-1         AMPHI         1225-1228           4762.         1a-1         AMPHI         1223-1233           4763.         1a-1         AMPHI         1252-1264           4764.         1a-1         AMPHI         1293-1303           4765.         1a-1         AMPHI         1370-1384           4766.         1a-1         AMPHI         1405-1408           4767.         1a-1         Antigenic Index         1-23           4768.         1a-1         Antigenic Index         55-64           4770.         1a-1         Antigenic Index         95-101           4771.         1a-1         Antigenic Index         115-120           4773.         1a-1         Antigenic Index         140-162           4774.         1a-1         Antige	4753.	1a-1	AMPHI	1045-1050
4756.       1a-1       AMPHI       1084-1099         4757.       1a-1       AMPHI       1165-1172         4758.       1a-1       AMPHI       1176-1185         4759.       1a-1       AMPHI       1187-1193         4760.       1a-1       AMPHI       1206-1220         4761.       1a-1       AMPHI       1225-1228         4762.       1a-1       AMPHI       1231-1233         4763.       1a-1       AMPHI       1252-1264         4764.       1a-1       AMPHI       1293-1303         4765.       1a-1       AMPHI       1370-1384         4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index<	4754.	1a-1	AMPHI	1055-1063
4757.         1a-1         AMPHI         1165-1172           4758.         1a-1         AMPHI         1176-1185           4759.         1a-1         AMPHI         1187-1193           4760.         1a-1         AMPHI         1206-1220           4761.         1a-1         AMPHI         1225-1228           4762.         1a-1         AMPHI         1231-1233           4763.         1a-1         AMPHI         1252-1264           4764.         1a-1         AMPHI         1293-1303           4765.         1a-1         AMPHI         1370-1384           4766.         1a-1         AMPHI         1405-1408           4767.         1a-1         Antigenic Index         1-23           4768.         1a-1         Antigenic Index         55-64           4769.         1a-1         Antigenic Index         95-101           4771.         1a-1         Antigenic Index         115-120           4772.         1a-1         Antigenic Index         140-162           4774.         1a-1         Antigenic Index         140-162           4775.         1a-1         Antigenic Index         202-215           4776.         1a-1	4755.	1a-1	АМРНІ	1074-1077
4758.       la-1       AMPHI       1176-1185         4759.       la-1       AMPHI       1187-1193         4760.       la-1       AMPHI       1206-1220         4761.       la-1       AMPHI       1225-1228         4762.       la-1       AMPHI       1231-1233         4763.       la-1       AMPHI       1252-1264         4764.       la-1       AMPHI       1293-1303         4765.       la-1       AMPHI       1370-1384         4766.       la-1       AMPHI       1405-1408         4767.       la-1       Antigenic Index       1-23         4768.       la-1       Antigenic Index       55-64         4769.       la-1       Antigenic Index       66-87         4770.       la-1       Antigenic Index       115-120         4771.       la-1       Antigenic Index       124-136         4773.       la-1       Antigenic Index       140-162         4774.       la-1       Antigenic Index       167-200         4775.       la-1       Antigenic Index       202-215         4776.       la-1       Antigenic Index       222-226	4756.	1a-1	AMPHI	1084-1099
4759.       1a-1       AMPHI       1187-1193         4760.       1a-1       AMPHI       1206-1220         4761.       1a-1       AMPHI       1225-1228         4762.       1a-1       AMPHI       1231-1233         4763.       1a-1       AMPHI       1252-1264         4764.       1a-1       AMPHI       1293-1303         4765.       1a-1       AMPHI       1370-1384         4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       66-87         4770.       1a-1       Antigenic Index       115-120         4771.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4757.	1a-1	AMPHI	1165-1172
4760.       1a-1       AMPHI       1206-1220         4761.       1a-1       AMPHI       1225-1228         4762.       1a-1       AMPHI       1231-1233         4763.       1a-1       AMPHI       1252-1264         4764.       1a-1       AMPHI       1293-1303         4765.       1a-1       AMPHI       1370-1384         4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       66-87         4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4758.	1a-1	AMPHI	1176-1185
4761.       la-1       AMPHI       1225-1228         4762.       la-1       AMPHI       1231-1233         4763.       la-1       AMPHI       1252-1264         4764.       la-1       AMPHI       1293-1303         4765.       la-1       AMPHI       1370-1384         4766.       la-1       AMPHI       1405-1408         4767.       la-1       Antigenic Index       1-23         4768.       la-1       Antigenic Index       55-64         4769.       la-1       Antigenic Index       66-87         4770.       la-1       Antigenic Index       95-101         4771.       la-1       Antigenic Index       115-120         4772.       la-1       Antigenic Index       124-136         4773.       la-1       Antigenic Index       140-162         4774.       la-1       Antigenic Index       167-200         4775.       la-1       Antigenic Index       202-215         4776.       la-1       Antigenic Index       222-226	4759.	1a-1	AMPHI	1187-1193
4762.       1a-1       AMPHI       1231-1233         4763.       1a-1       AMPHI       1252-1264         4764.       1a-1       AMPHI       1293-1303         4765.       1a-1       AMPHI       1370-1384         4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       95-101         4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4760.	1a-1	AMPHI	1206-1220
4763.       1a-1       AMPHI       1252-1264         4764.       1a-1       AMPHI       1293-1303         4765.       1a-1       AMPHI       1370-1384         4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       66-87         4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4761.	1a-1	АМРНІ	1225-1228
4764.       1a-1       AMPHI       1293-1303         4765.       1a-1       AMPHI       1370-1384         4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       95-101         4770.       1a-1       Antigenic Index       115-120         4771.       1a-1       Antigenic Index       124-136         4772.       1a-1       Antigenic Index       140-162         4773.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4762.	1a-1	AMPHI	1231-1233
4765.       1a-1       AMPHI       1370-1384         4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       66-87         4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4763.	1a-1	АМРНІ	1252-1264
4766.       1a-1       AMPHI       1405-1408         4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       66-87         4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4764.	1a-1	АМРНІ	1293-1303
4767.       1a-1       Antigenic Index       1-23         4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       66-87         4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4765.	1a-1	AMPHI	1370-1384
4768.       1a-1       Antigenic Index       55-64         4769.       1a-1       Antigenic Index       66-87         4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4766.	1a-1	АМРНІ	1405-1408
4769.       1a-1       Antigenic Index       66-87         4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4767.	1a-1	Antigenic Index	1-23
4770.       1a-1       Antigenic Index       95-101         4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4768.	la-l	Antigenic Index	55-64
4771.       1a-1       Antigenic Index       115-120         4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4769.	1a-1	Antigenic Index	66-87
4772.       1a-1       Antigenic Index       124-136         4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4770.	1a-1	Antigenic Index	95-101
4773.       1a-1       Antigenic Index       140-162         4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4771.	1a-1	Antigenic Index	115-120
4774.       1a-1       Antigenic Index       167-200         4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4772.	1a-1	Antigenic Index	124-136
4775.       1a-1       Antigenic Index       202-215         4776.       1a-1       Antigenic Index       222-226	4773.	1a-1	Antigenic Index	140-162
4776. 1a-1 Antigenic Index 222-226	4774.	la-l	Antigenic Index	167-200
	4775.	1a-1	Antigenic Index	202-215
4777. 1a-1 Antigenic Index 229-250	4776.	la-l	Antigenic Index	222-226
	4777.	1a-1	Antigenic Index	229-250

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4778.	1a-1	Antigenic Index	257-263
4779.	1a-1	Antigenic Index	267-274
4780.	1a-1	Antigenic Index	285-293
4781.	1a-1	Antigenic Index	295-311
4782.	1a-1	Antigenic Index	314-321
4783.	1a-1	Antigenic Index	327-334
4784.	1a-1	Antigenic Index	336-351
4785.	1a-1	Antigenic Index	353-367
4786.	1a-1	Antigenic Index	374-385
4787.	1a-1	Antigenic Index	390-396
4788.	1a-1	Antigenic Index	401-406
4789.	1a-1	Antigenic Index	414-426
4790.	1a-1	Antigenic Index	432-439
4791.	1a-1	Antigenic Index	446-458
4792.	1a-1	Antigenic Index	462-477
4793.	1a-1	Antigenic Index	481-492
4794.	la-l	Antigenic Index	496-503
4795.	1a-1	Antigenic Index	507-516
4796.	1a-1	Antigenic Index	521-532
4797.	1a-1	Antigenic Index	537-545
4798.	1a-1	Antigenic Index	551-554
4799.	la-l	Antigenic Index	561-584
4800.	la-l	Antigenic Index	586-601
4801.	1a-1	Antigenic Index	608-615
4802.	1a-1	Antigenic Index	618-622
4803.	1a-1	Antigenic Index	625-633
4804.	1a-1	Antigenic Index	635-643
4805.	1a-1	Antigenic Index	648-653
4806.	1a-1	Antigenic Index	655-661
4807.	1a-1	Antigenic Index	664-669
4808.	1a-1	Antigenic Index	672-677
4809.	1a-1	Antigenic Index	681-683
4810.	la-l	Antigenic Index	688-703
4811.	1a-1	Antigenic Index	712-715
4812.	1a-1	Antigenic Index	720-731
4813.	1a-1	Antigenic Index	734-741
4814.	1a-1	Antigenic Index	744-752
4815.	1a-1	Antigenic Index	762-765
4816.	1a-1	Antigenic Index	767-769
4817.	la-l	Antigenic Index	773-783
4818.	1a-1	Antigenic Index	786-792
			+:
4819	1a-1	Antigenic Index	808-819
4819. 4820.	1a-1 1a-1	Antigenic Index Antigenic Index	808-819 822-830

4823.   1a-1				
4824.   1a-1	4822.	1a-1	Antigenic Index	847-849
4825.   1a-1	4823.	1a-1	Antigenic Index	853-855
4826.   1a-1   Antigenic Index   907-934   4827.   1a-1   Antigenic Index   938-947   4828.   1a-1   Antigenic Index   951-960   4829.   1a-1   Antigenic Index   970-984   4830.   1a-1   Antigenic Index   990-998   4831.   1a-1   Antigenic Index   1003-1017   4832.   1a-1   Antigenic Index   1003-1017   4833.   1a-1   Antigenic Index   1035-1044   4834.   1a-1   Antigenic Index   1046-1073   4835.   1a-1   Antigenic Index   1046-1073   4836.   1a-1   Antigenic Index   1107-1175   4837.   1a-1   Antigenic Index   1107-1175   4838.   1a-1   Antigenic Index   1128-1230   4839.   1a-1   Antigenic Index   1288-1230   4840.   1a-1   Antigenic Index   1281-1265   4841.   1a-1   Antigenic Index   1281-1265   4842.   1a-1   Antigenic Index   1285-1290   4843.   1a-1   Antigenic Index   1293-1306   4843.   1a-1   Antigenic Index   1313-1321   4844.   1a-1   Antigenic Index   1337-1344   4845.   1a-1   Antigenic Index   1337-1344   4846.   1a-1   Antigenic Index   1337-1344   4847.   1a-1   Antigenic Index   1338-1395   4847.   1a-1   Antigenic Index   1338-1395   4847.   1a-1   Antigenic Index   1402-1411   4848.   1a-1   Antigenic Index   1416-1419   4849.   1a-1   Antigenic Index   1428-1420   4850.   1a-1   Hydrophilicity   1-23   4851.   1a-1   Hydrophilicity   1-23   4852.   1a-1   Hydrophilicity   1-23   4853.   1a-1   Hydrophilicity   142-135   4854.   1a-1   Hydrophilicity   154-156   4855.   1a-1   Hydrophilicity   154-156   4857.   1a-1   Hydrophilicity   158-160   4858.   1a-1   Hydrophilicity   158-160   4859.   1a-1   Hydrophilicity   158-160   4860.   1a-1   Hydrophilicity   158-160   4860.   1a-1   Hydrophilicity   158-160   4861.   1a-1   Hydrophilicity   158-160   4862.   1a-1   Hydrophilicity   158-160   4863.   1a-1   Hydrophilicity   158-160   4864.   1a-1   Hydrophilicity   259-272   4864.   1a-1   Hydrophilicity   259-272	4824.	1a-1	Antigenic Index	862-876
4827.   1a-1   Antigenic Index   938-947   4828.   1a-1   Antigenic Index   951-960   4829.   1a-1   Antigenic Index   970-984   4830.   1a-1   Antigenic Index   990-998   4831.   1a-1   Antigenic Index   1003-1017   4832.   1a-1   Antigenic Index   1024-1027   4833.   1a-1   Antigenic Index   1035-1044   4834.   1a-1   Antigenic Index   1046-1073   4835.   1a-1   Antigenic Index   1046-1073   4836.   1a-1   Antigenic Index   1107-1175   4837.   1a-1   Antigenic Index   1107-1175   4838.   1a-1   Antigenic Index   1208-1230   4839.   1a-1   Antigenic Index   1232-1242   4840.   1a-1   Antigenic Index   1248-1265   4841.   1a-1   Antigenic Index   1285-1290   4842.   1a-1   Antigenic Index   1293-1306   4843.   1a-1   Antigenic Index   1313-1321   4844.   1a-1   Antigenic Index   1337-1344   4845.   1a-1   Antigenic Index   1337-1344   4846.   1a-1   Antigenic Index   1335-1371   4846.   1a-1   Antigenic Index   1402-1411   4848.   1a-1   Antigenic Index   1402-1411   4849.   1a-1   Antigenic Index   1428-1442   4850.   1a-1   Hydrophilicity   1-23   4851.   1a-1   Hydrophilicity   1-23   4851.   1a-1   Hydrophilicity   1-23   4851.   1a-1   Hydrophilicity   1-23   4855.   1a-1   Hydrophilicity   154-156   4857.   1a-1   Hydrophilicity   154-156   4859.   1a-1   Hydrophilicity   154-156   4860.   1a-1   Hydrophilicity   157-181   4861.   1a-1   Hydrophilicity   158-160   4862.   1a-1   Hydrophilicity   158-160   4863.   1a-1   Hydrophilicity   158-160   4864.   1a-1   Hydrophilicity   158-160   4865.   1a-1   Hydrophilicity   158-160   4866.   1a-1   Hydrophilicity   158-160   4867.   1a-1   Hydrophilicity   158-160   4868.   1a-1   Hydrophilicity   158-160   4869.   1a-1   Hydrophilicity   158-160   4860.   1a-1   Hydrophilicity   158-160   4861.   1a-1   Hydrophilicity   158-160   4862.   1a-1   Hydrophilicity   158-160   4863.   1a-1   Hydrophilicity   158-160   4864.   1a-1   Hydrophilicity   158-261   4864.   1a-1   Hydrophilicity   158-261   4864.   1a-1   Hydrophilicity   158-261   4864.   1a-1   Hydrop	4825.	1a-1	Antigenic Index	879-897
4828.   1a-1	4826.	1a-1	Antigenic Index	907-934
4829.   1a-1	4827.	1a-1	Antigenic Index	938-947
4830.   1a-1	4828.	1a-1	Antigenic Index	951-960
4831.   1a-1	4829.	1a-1	Antigenic Index	970-984
4832.         1a-1         Antigenic Index         1024-1027           4833.         1a-1         Antigenic Index         1035-1044           4834.         1a-1         Antigenic Index         1046-1073           4835.         1a-1         Antigenic Index         1180-1102           4836.         1a-1         Antigenic Index         1107-1175           4837.         1a-1         Antigenic Index         1189-1202           4838.         1a-1         Antigenic Index         1208-1230           4839.         1a-1         Antigenic Index         1232-1242           4840.         1a-1         Antigenic Index         1248-1265           4841.         1a-1         Antigenic Index         1293-1306           4842.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1333-1395           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1	4830.	1a-1	Antigenic Index	990-998
4833.         1a-1         Antigenic Index         1035-1044           4834.         1a-1         Antigenic Index         1046-1073           4835.         1a-1         Antigenic Index         1080-1102           4836.         1a-1         Antigenic Index         1107-1175           4837.         1a-1         Antigenic Index         1208-1230           4838.         1a-1         Antigenic Index         1228-1230           4849.         1a-1         Antigenic Index         1228-1242           4840.         1a-1         Antigenic Index         1228-1290           4841.         1a-1         Antigenic Index         1285-1290           4842.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1333-1395           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Hydrophilicity         1-23           4850.         1a-1	4831.	1a-1	Antigenic Index	1003-1017
4834.         1a-1         Antigenic Index         1046-1073           4835.         1a-1         Antigenic Index         1080-1102           4836.         1a-1         Antigenic Index         1107-1175           4837.         1a-1         Antigenic Index         1189-1202           4838.         1a-1         Antigenic Index         1208-1230           4839.         1a-1         Antigenic Index         1232-1242           4840.         1a-1         Antigenic Index         1248-1265           4841.         1a-1         Antigenic Index         1285-1290           4842.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Hydrophilicity         1-23           4851.         1a-1	4832.	la-l	Antigenic Index	1024-1027
4835.         1a-1         Antigenic Index         1080-1102           4836.         1a-1         Antigenic Index         1107-1175           4837.         1a-1         Antigenic Index         1189-1202           4838.         1a-1         Antigenic Index         1208-1230           4839.         1a-1         Antigenic Index         1232-1242           4840.         1a-1         Antigenic Index         1285-1290           4841.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1293-1306           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1337-1344           4846.         1a-1         Antigenic Index         1335-1371           4846.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1402-1411           4849.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Hydrophilicity         1-23           4850.         1a-1         Hydrophilicity         56-64           4851.         1a-1         Hydro	4833.	1a-1	Antigenic Index	1035-1044
4836.         1a-1         Antigenic Index         1107-1175           4837.         1a-1         Antigenic Index         1189-1202           4838.         1a-1         Antigenic Index         1208-1230           4839.         1a-1         Antigenic Index         1232-1242           4840.         1a-1         Antigenic Index         1248-1265           4841.         1a-1         Antigenic Index         1293-1306           4842.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1383-1395           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophili	4834.	1a-1	Antigenic Index	1046-1073
4837.         1a-1         Antigenic Index         1189-1202           4838.         1a-1         Antigenic Index         1208-1230           4839.         1a-1         Antigenic Index         1232-1242           4840.         1a-1         Antigenic Index         1248-1265           4841.         1a-1         Antigenic Index         1285-1290           4842.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1355-1371           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1402-1411           4849.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         48-86           4853.         1a-1         Hydrophili	4835.	1a-1	Antigenic Index	1080-1102
4838.         1a-1         Antigenic Index         1208-1230           4839.         1a-1         Antigenic Index         1232-1242           4840.         1a-1         Antigenic Index         1248-1265           4841.         1a-1         Antigenic Index         1285-1290           4842.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1355-1371           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         56-64           4851.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         140-152           4855.         1a-1         Hydroph	4836.	1a-1	Antigenic Index	1107-1175
4839.         1a-1         Antigenic Index         1232-1242           4840.         1a-1         Antigenic Index         1248-1265           4841.         1a-1         Antigenic Index         1285-1290           4842.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1383-1395           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         1-23           4853.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         149-152           4854.         1a-1         Hydrophilicity         154-156           4857.         1a-1         Hydrophilicity <td>4837.</td> <td>la-1</td> <td>Antigenic Index</td> <td>1189-1202</td>	4837.	la-1	Antigenic Index	1189-1202
4840.         1a-1         Antigenic Index         1248-1265           4841.         1a-1         Antigenic Index         1285-1290           4842.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1383-1395           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4854.         1a-1         Hydrophilicity         154-156           4857.         1a-1         Hydrophilicity         158-160           4858.         1a-1         Hydrophilicity	4838.	1a-1	Antigenic Index	1208-1230
4841.         1a-1         Antigenic Index         1285-1290           4842.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1383-1395           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4854.         1a-1         Hydrophilicity         140-152           4856.         1a-1         Hydrophilicity         158-160           4857.         1a-1         Hydrophilicity         167-181           4859.         1a-1         Hydrophilicity	4839.	1a-1	Antigenic Index	1232-1242
4842.         1a-1         Antigenic Index         1293-1306           4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1402-1411           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4855.         1a-1         Hydrophilicity         154-156           4857.         1a-1         Hydrophilicity         158-160           4858.         1a-1         Hydrophilicity         183-196           4860.         1a-1         Hydrophilicity         204-212           4861.         1a-1         Hydrophilicity	4840.	1a-1	Antigenic Index	1248-1265
4843.         1a-1         Antigenic Index         1313-1321           4844.         1a-1         Antigenic Index         1337-1344           4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1402-1411           4847.         1a-1         Antigenic Index         1416-1419           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4855.         1a-1         Hydrophilicity         140-152           4856.         1a-1         Hydrophilicity         158-160           4857.         1a-1         Hydrophilicity         167-181           4859.         1a-1         Hydrophilicity         183-196           4860.         1a-1         Hydrophilicity         204-212           4861.         1a-1         Hydrophilicity	4841.	la-l	Antigenic Index	1285-1290
4844.         la-1         Antigenic Index         1337-1344           4845.         la-1         Antigenic Index         1355-1371           4846.         la-1         Antigenic Index         1383-1395           4847.         la-1         Antigenic Index         1402-1411           4848.         la-1         Antigenic Index         1416-1419           4849.         la-1         Antigenic Index         1428-1442           4850.         la-1         Hydrophilicity         1-23           4851.         la-1         Hydrophilicity         56-64           4852.         la-1         Hydrophilicity         66-82           4853.         la-1         Hydrophilicity         84-86           4854.         la-1         Hydrophilicity         124-135           4855.         la-1         Hydrophilicity         154-156           4857.         la-1         Hydrophilicity         158-160           4858.         la-1         Hydrophilicity         183-196           4860.         la-1         Hydrophilicity         204-212           4861.         la-1         Hydrophilicity         238-246           4862.         la-1         Hydrophilicity         2	4842.	1a-1	Antigenic Index	1293-1306
4845.         1a-1         Antigenic Index         1355-1371           4846.         1a-1         Antigenic Index         1383-1395           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4854.         1a-1         Hydrophilicity         140-152           4855.         1a-1         Hydrophilicity         154-156           4857.         1a-1         Hydrophilicity         158-160           4858.         1a-1         Hydrophilicity         167-181           4859.         1a-1         Hydrophilicity         204-212           4860.         1a-1         Hydrophilicity         238-246           4861.         1a-1         Hydrophilicity         257-261           4863.         1a-1         Hydrophilicity         26	4843.	la-l	Antigenic Index	1313-1321
4846.         1a-1         Antigenic Index         1383-1395           4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4854.         1a-1         Hydrophilicity         140-152           4855.         1a-1         Hydrophilicity         154-156           4857.         1a-1         Hydrophilicity         158-160           4858.         1a-1         Hydrophilicity         167-181           4859.         1a-1         Hydrophilicity         183-196           4860.         1a-1         Hydrophilicity         238-246           4861.         1a-1         Hydrophilicity         257-261           4863.         1a-1         Hydrophilicity         269-272           4864.         1a-1         Hydrophilicity         287-2	4844.	la-1	Antigenic Index	1337-1344
4847.         1a-1         Antigenic Index         1402-1411           4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4854.         1a-1         Hydrophilicity         140-152           4855.         1a-1         Hydrophilicity         154-156           4857.         1a-1         Hydrophilicity         158-160           4858.         1a-1         Hydrophilicity         167-181           4859.         1a-1         Hydrophilicity         183-196           4860.         1a-1         Hydrophilicity         204-212           4861.         1a-1         Hydrophilicity         257-261           4862.         1a-1         Hydrophilicity         269-272           4864.         1a-1         Hydrophilicity         269-272	4845.	1a-1	Antigenic Index	1355-1371
4848.         1a-1         Antigenic Index         1416-1419           4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4854.         1a-1         Hydrophilicity         140-152           4855.         1a-1         Hydrophilicity         154-156           4856.         1a-1         Hydrophilicity         158-160           4857.         1a-1         Hydrophilicity         167-181           4859.         1a-1         Hydrophilicity         183-196           4860.         1a-1         Hydrophilicity         204-212           4861.         1a-1         Hydrophilicity         238-246           4862.         1a-1         Hydrophilicity         257-261           4863.         1a-1         Hydrophilicity         269-272           4864.         1a-1         Hydrophilicity         287-292	4846.	1a-1	Antigenic Index	1383-1395
4849.         1a-1         Antigenic Index         1428-1442           4850.         1a-1         Hydrophilicity         1-23           4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         124-135           4854.         1a-1         Hydrophilicity         140-152           4855.         1a-1         Hydrophilicity         154-156           4856.         1a-1         Hydrophilicity         158-160           4857.         1a-1         Hydrophilicity         167-181           4859.         1a-1         Hydrophilicity         183-196           4860.         1a-1         Hydrophilicity         204-212           4861.         1a-1         Hydrophilicity         238-246           4862.         1a-1         Hydrophilicity         257-261           4863.         1a-1         Hydrophilicity         269-272           4864.         1a-1         Hydrophilicity         287-292	4847.	1a-1	Antigenic Index	1402-1411
4850.       la-1       Hydrophilicity       1-23         4851.       la-1       Hydrophilicity       56-64         4852.       la-1       Hydrophilicity       66-82         4853.       la-1       Hydrophilicity       124-135         4854.       la-1       Hydrophilicity       140-152         4855.       la-1       Hydrophilicity       154-156         4857.       la-1       Hydrophilicity       158-160         4858.       la-1       Hydrophilicity       167-181         4859.       la-1       Hydrophilicity       183-196         4860.       la-1       Hydrophilicity       204-212         4861.       la-1       Hydrophilicity       238-246         4862.       la-1       Hydrophilicity       257-261         4863.       la-1       Hydrophilicity       269-272         4864.       la-1       Hydrophilicity       287-292	4848.	1a-1	Antigenic Index	1416-1419
4851.         1a-1         Hydrophilicity         56-64           4852.         1a-1         Hydrophilicity         66-82           4853.         1a-1         Hydrophilicity         84-86           4854.         1a-1         Hydrophilicity         124-135           4855.         1a-1         Hydrophilicity         140-152           4856.         1a-1         Hydrophilicity         154-156           4857.         1a-1         Hydrophilicity         167-181           4858.         1a-1         Hydrophilicity         183-196           4860.         1a-1         Hydrophilicity         204-212           4861.         1a-1         Hydrophilicity         238-246           4862.         1a-1         Hydrophilicity         257-261           4863.         1a-1         Hydrophilicity         269-272           4864.         1a-1         Hydrophilicity         287-292	4849.	1a-1	Antigenic Index	1428-1442
4852.       1a-1       Hydrophilicity       66-82         4853.       1a-1       Hydrophilicity       84-86         4854.       1a-1       Hydrophilicity       124-135         4855.       1a-1       Hydrophilicity       140-152         4856.       1a-1       Hydrophilicity       154-156         4857.       1a-1       Hydrophilicity       158-160         4858.       1a-1       Hydrophilicity       167-181         4859.       1a-1       Hydrophilicity       183-196         4860.       1a-1       Hydrophilicity       204-212         4861.       1a-1       Hydrophilicity       238-246         4862.       1a-1       Hydrophilicity       257-261         4863.       1a-1       Hydrophilicity       269-272         4864.       1a-1       Hydrophilicity       287-292	4850.	1a-1	Hydrophilicity	1-23
4853.       1a-1       Hydrophilicity       84-86         4854.       1a-1       Hydrophilicity       124-135         4855.       1a-1       Hydrophilicity       140-152         4856.       1a-1       Hydrophilicity       154-156         4857.       1a-1       Hydrophilicity       158-160         4858.       1a-1       Hydrophilicity       167-181         4859.       1a-1       Hydrophilicity       183-196         4860.       1a-1       Hydrophilicity       204-212         4861.       1a-1       Hydrophilicity       238-246         4862.       1a-1       Hydrophilicity       257-261         4863.       1a-1       Hydrophilicity       269-272         4864.       1a-1       Hydrophilicity       287-292	4851.	1a-1		
4854.       1a-1       Hydrophilicity       124-135         4855.       1a-1       Hydrophilicity       140-152         4856.       1a-1       Hydrophilicity       154-156         4857.       1a-1       Hydrophilicity       158-160         4858.       1a-1       Hydrophilicity       167-181         4859.       1a-1       Hydrophilicity       183-196         4860.       1a-1       Hydrophilicity       204-212         4861.       1a-1       Hydrophilicity       238-246         4862.       1a-1       Hydrophilicity       257-261         4863.       1a-1       Hydrophilicity       269-272         4864.       1a-1       Hydrophilicity       287-292	4852.	1a-1	Hydrophilicity	66-82
4855.       1a-1       Hydrophilicity       140-152         4856.       1a-1       Hydrophilicity       154-156         4857.       1a-1       Hydrophilicity       158-160         4858.       1a-1       Hydrophilicity       167-181         4859.       1a-1       Hydrophilicity       183-196         4860.       1a-1       Hydrophilicity       204-212         4861.       1a-1       Hydrophilicity       238-246         4862.       1a-1       Hydrophilicity       257-261         4863.       1a-1       Hydrophilicity       269-272         4864.       1a-1       Hydrophilicity       287-292	4853.	1a-1	Hydrophilicity	84-86
4856.       1a-1       Hydrophilicity       154-156         4857.       1a-1       Hydrophilicity       158-160         4858.       1a-1       Hydrophilicity       167-181         4859.       1a-1       Hydrophilicity       183-196         4860.       1a-1       Hydrophilicity       204-212         4861.       1a-1       Hydrophilicity       238-246         4862.       1a-1       Hydrophilicity       257-261         4863.       1a-1       Hydrophilicity       269-272         4864.       1a-1       Hydrophilicity       287-292	4854.	1a-1	Hydrophilicity	124-135
4857.       1a-1       Hydrophilicity       158-160         4858.       1a-1       Hydrophilicity       167-181         4859.       1a-1       Hydrophilicity       183-196         4860.       1a-1       Hydrophilicity       204-212         4861.       1a-1       Hydrophilicity       238-246         4862.       1a-1       Hydrophilicity       257-261         4863.       1a-1       Hydrophilicity       269-272         4864.       1a-1       Hydrophilicity       287-292	4855.	1a-1	Hydrophilicity	140-152
4858.       1a-1       Hydrophilicity       167-181         4859.       1a-1       Hydrophilicity       183-196         4860.       1a-1       Hydrophilicity       204-212         4861.       1a-1       Hydrophilicity       238-246         4862.       1a-1       Hydrophilicity       257-261         4863.       1a-1       Hydrophilicity       269-272         4864.       1a-1       Hydrophilicity       287-292	4856.	1a-1	Hydrophilicity	154-156
4859.       1a-1       Hydrophilicity       183-196         4860.       1a-1       Hydrophilicity       204-212         4861.       1a-1       Hydrophilicity       238-246         4862.       1a-1       Hydrophilicity       257-261         4863.       1a-1       Hydrophilicity       269-272         4864.       1a-1       Hydrophilicity       287-292	4857.	1a-1	Hydrophilicity	158-160
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5243.	9a-1	Antigenic Index	315-322
5244.	9a-1	Antigenic Index	326-343
5245.	9a-1	Antigenic Index	352-370
5246.	9a-1	Antigenic Index	373-378
5247.	9a-1	Antigenic Index	385-394
5248.	9a-1	Antigenic Index	396-412
5249.	9a-1	Antigenic Index	414-417
5250.	9a-1	Antigenic Index  Antigenic Index	426-454
5251.	9a-1	Antigenic Index	466-487
5252.	9a-1	Antigenic Index	493-496
5253.	9a-1	Antigenic Index	499-509
5254.	9a-1	Antigenic Index	518-529
5255.	9a-1	Antigenic Index	537-542
5256.	9a-1	Antigenic Index  Antigenic Index	547-558
5257.	9a-1	Antigenic Index  Antigenic Index	570-575
5257. 5258.	9a-1		584-612
	9a-1	Antigenic Index	26-57
5259. 5260		Hydrophilicity	
5260.	9a-1	Hydrophilicity	59-65
5261.	9a-1	Hydrophilicity	75-82

5263.       9         5264.       9         5265.       9         5266.       9         5267.       9	9a-1 9a-1 9a-1 9a-1 9a-1	Hydrophilicity Hydrophilicity Hydrophilicity	94-107 116-119 131-141
5264.       9         5265.       9         5266.       9         5267.       9	9a-1 9a-1	Hydrophilicity	
5265.       9         5266.       9         5267.       9	9a-1		131-141
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5267.	9a-1	Hydrophilicity	145-153
		Hydrophilicity	155-171
5268.	9a-1	Hydrophilicity	185-200
	9a-1	Hydrophilicity	203-205
5269.	9a-1	Hydrophilicity	217-225
5270.	9a-1	Hydrophilicity	230-238
5271.	9a-1	Hydrophilicity	248-256
5272.	9a-1	Hydrophilicity	261-268
	9a-1	Hydrophilicity	285-292
	9a-1	Hydrophilicity	298-303
	9a-1	Hydrophilicity	315-322
	9a-1	Hydrophilicity	327-333
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	9a-1	Hydrophilicity	352-359
	9a-1	Hydrophilicity	362-364
	9a-1	Hydrophilicity	367-369
	9a-1	Hydrophilicity	385-394
	9a-1	Hydrophilicity	396-408
	9a-1	Hydrophilicity	415-417
	9a-1	Hydrophilicity	426-446
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	9a-1	Hydrophilicity	466-487
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	9a-1	Hydrophilicity	519-525
	9a-1	Hydrophilicity	537-541
	9a-1	Hydrophilicity	550-558
	9a-1	Hydrophilicity	570-575
	9a-1	Hydrophilicity	586-600
	9a-1	Hydrophilicity	605-612
	10a-1	AMPHI	16-18
5295.	10a-1	AMPHI	38-40
	10a-1	AMPHI	175-181
	10a-1	AMPHI	209-213
	10a-1	AMPHI	223-227
	10a-1	AMPHI	241-247
	10a-1	AMPHI	263-280
	10a-1	AMPHI	287-289
	10a-1	AMPHI	305-313
	10a-1	AMPHI	339-340
	10a-1	AMPHI	347-353
	10a-1	AMPHI	358-365

5306.	10a-1	AMPHI	401-412
5307.	10a-1	AMPHI	430-434
5308.	10a-1	AMPHI	442-449
5309.	10a-1	AMPHI	457-465
5310.	10a-1	Antigenic Index	1-5
5311.	10a-1	Antigenic Index	32-38
5311.	10a-1	Antigenic Index	69-74
5312.	10a-1	Antigenic Index	95-103
5314.	10a-1	Antigenic Index	108-111
5314.	10a-1	Antigenic Index	135-139
5316.	10a-1	Antigenic Index	192-206
5317.	10a-1 10a-1	Antigenic Index	231-237
5318.		Antigenic Index Antigenic Index	278-287
5319.	10a-1	<del></del>	289-293
5320.	10a-1	Antigenic Index	317-321
5321.	10a-1	Antigenic Index	349-357
5322.	10a-1	Antigenic Index	376-382
5323.	10a-1	Antigenic Index	398-405
5324.	10a-1	Antigenic Index	408-411
5325.	10a-1	Antigenic Index	434-436
5326.	10a-1	Antigenic Index	453-460
5327.	10a-1	Antigenic Index	467-470
5328.	10a-1	Hydrophilicity	1-5
5329.	10a-1	Hydrophilicity	34-37
5330.	10a-1	Hydrophilicity	69-74
5331.	10a-1	Hydrophilicity	97-100
5332.	10a-1	Hydrophilicity	108-111
5333	10a-1	Hydrophilicity	135-139
5334.	10a-1	Hydrophilicity	192-204
5335.	10a-1	Hydrophilicity	231-233
5336.	10a-1	Hydrophilicity	235-237
5337.	10a-1	Hydrophilicity	281-287
5338.	10a-1	Hydrophilicity	289-293
5339.	10a-1	Hydrophilicity	349-355
5340.	10a-1	Hydrophilicity	378-382
5341.	10a-1	Hydrophilicity	399-403
5342.	10a-1	Hydrophilicity	453-460
5343.	11a-1	AMPHI	6-8
5344.	11a-1	AMPHI	31-33
5345.	11a-1	AMPHI	60-65
5346.	11a-1	AMPHI	73-79
5347.	11a-1	AMPHI	110-118
5348.	11a-1	AMPHI	120-123
5349.	11a-1	АМРНІ	150-156

5350.	11a-1	АМРНІ	186-190
5351.	11a-1	AMPHI	201-206
5352.	11a-1	AMPHI	234-236
5353.	11a-1	АМРНІ	239-242
5354.	11a-1	AMPHI	244-252
5355.	11a-1	AMPHI	296-299
5356.	11a-1	AMPHI	315-323
5357.	11a-1	АМРНІ	347-352
5358.	11a-1	AMPHI	364-367
5359.	11a-1	АМРНІ	375-383
5360.	11a-1	AMPHI	418-432
5361.	11a-1	АМРНІ	441-444
5362.	11a-1	АМРНІ	449-451
5363.	11a-1	AMPHI	453-458
5364.	11a-1	АМРНІ	478-486
5365.	11a-1	АМРНІ	507-509
5366.	11a-1	АМРНІ	522-525
5367.	11a-1	Antigenic Index	1-6
5368.	11a-1	Antigenic Index	25-38
5369.	11a-1	Antigenic Index	44-46
5370.	11a-1	Antigenic Index	52-54
5371.	11a-1	Antigenic Index	66-76
5372.	11a-1	Antigenic Index	82-90
5373.	11a-1	Antigenic Index	96-102
5374.	11a-1	Antigenic Index	108-111
5375.	11a-1	Antigenic Index	124-153
5376.	11a-1	Antigenic Index	158-161
5377.	11a-1	Antigenic Index	172-178
5378.	11a-1	Antigenic Index	180-198
5379.	11a-1	Antigenic Index	210-216
5380.	11 <u>a</u> -1	Antigenic Index	219-244
5381.	11a-1	Antigenic Index	259-265
5382.	11a-1	Antigenic Index	269-287
5383.	11a-1	Antigenic Index	295-303
5384.	11a-1	Antigenic Index	310-313
5385.	11a-1	Antigenic Index	325-332
5386.	11a-1	Antigenic Index	338-340
5387.	11a-1	Antigenic Index	352-354
5388.	11a-1	Antigenic Index	375-377
5389.	11a-1	Antigenic Index	379-387
5390.	11a-1	Antigenic Index	391-404
5391.	11a-1	Antigenic Index	412-422
5392.	11a-1	Antigenic Index	444-448
5393.	11a-1	Antigenic Index	457-464

5394.	11a-1	Antigenic Index	481-490
5395.	11a-1	Antigenic Index	509-511
5396.	11a-1	Antigenic Index  Antigenic Index	529-545
5390.	11a-1	Hydrophilicity	1-5
5398.	11a-1	Hydrophilicity	28-31
5399.	11a-1	Hydrophilicity	44-46
5400.	11a-1	Hydrophilicity	66-76
5400.	11a-1	Hydrophilicity	83-90
5401.	11a-1	Hydrophilicity	97-100
5403.	11a-1	Hydrophilicity	97-100
5404.	lla-l	Hydrophilicity	108-111
5405.	11a-1	Hydrophilicity	125-153
5405.	11a-1	Hydrophilicity	184-195
5407.	11a-1	Hydrophilicity	213-215
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5408.	11a-1 11a-1	Hydrophilicity Hydrophilicity	219-241 261-264
5410.	11a-1	Hydrophilicity	270-284
5411.	11a-1	Hydrophilicity	297-303
5412.	11a-1	Hydrophilicity	325-331
5413.	11a-1	Hydrophilicity	379-387
5414.	11a-1	Hydrophilicity	391-404
5415.	11a-1	Hydrophilicity	412-418
5416.	11a-1	Hydrophilicity	444-448
5417.	11a-1	Hydrophilicity	458-462
5418.	11a-1	Hydrophilicity	484-490
5419.	11a-1	Hydrophilicity	532-545
5420.	12a-1	AMPHI	9-26
5421.	12a-1	AMPHI	70-103
5422.	12a-1	AMPHI	116-120
5423.	12a-1	AMPHI	123-125
5424.	12a-1	AMPHI	127-129
5425.	12a-1	AMPHI	141-144
5426.	12a-1	AMPHI	160-163
5427.	12a-1	AMPHI_	165-181
5428.	12a-1	AMPHI	190-203
5429.	12a-1	AMPHI	228-233
5430.	12a-1	AMPHI	241-243
5431.	12a-1	AMPHI	260-265
5432.	12a-1	AMPHI	283-289
5433.	12a-1	AMPHI	297-304
5434.	12a-1	AMPHI	325-327
5435.	12a-1	AMPHI	330-352
5436.	12a-1	AMPHI	367-380
5437.	12a-1	AMPHI	408-410

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5438.	12a-1	АМРНІ	437-467
5439.	12a-1	AMPHI	480-483
5440.	12a-1	AMPHI	494-502
5441.	12a-1	Antigenic Index	1-12
5442.	12a-1	Antigenic Index	23-25
5443.	12a-1	Antigenic Index	50-67
5444.	12a-1	Antigenic Index	74-79
5445.	12a-1	Antigenic Index	108-113
5446.	12a-1	Antigenic Index	123-131
5447.	12a-1	Antigenic Index	141-147
5448.	12a-1	Antigenic Index	164-169
5449.	12a-1	Antigenic Index	180-183
5450.	12a-1	Antigenic Index	239-271
5451.	12a-1	Antigenic Index	293-307
5452.	12a-1	Antigenic Index	309-311
5453.	12a-1	Antigenic Index	332-343
5454.	12a-1	Antigenic Index	350-352
5455.	12a-1	Antigenic Index	375-377
5456.	12a-1	Antigenic Index	391-395
5457.	12a-1	Antigenic Index	446-449
5458.	12a-1	Antigenic Index	471-478
5459.	12a-1	Antigenic Index	512-514
5460.	12a-1	Hydrophilicity	2-12
5461.	12a-1	Hydrophilicity	52-67
5462.	12a-1	Hydrophilicity	74-79
5463.	12a-1	Hydrophilicity	108-113
5464.	12a-1	Hydrophilicity	125-130
5465.	12a-1	Hydrophilicity	144-146
5466.	12a-1_	Hydrophilicity	239-242
5467.	12a-1	Hydrophilicity	252-264
5468.	12a-1	Hydrophilicity	296-302
5469.	12a-1	Hydrophilicity	332-343
5470.	12a-1	Hydrophilicity	446-449
5471.	12a-1	Hydrophilicity	471-477
5472.	13a-1	AMPHI	14-19
5473.	13a-1	AMPHI	50-56
5474.	13a-1	AMPHI	72-91
5475.	13a-1	Antigenic Index	66-82
5476.	13a-1	Antigenic Index	87-97
5477.	13a-1	Antigenic Index	100-104
5478.	13a-1	Antigenic Index	106-118
5479.	13a-1	Antigenic Index	121-128
5480.	13a-1	Hydrophilicity	66-80
5481.	13a-1	Hydrophilicity	109-118
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5482.	13a-1	Hydrophilicity	121-128
5483.	15a-1	AMPHI	18-26
5484.	15a-1	AMPHI	84-86
5485.	15a-1	AMPHI	113-133
5486.	15a-1	AMPHI	153-156
5487.	15a-1	AMPHI	173-176
5488.	15a-1	АМРНІ	181-190
5489.	15a-1	AMPHI	201-207
5490.	15a-1	АМРНІ	218-220
5491.	15a-1	АМРНІ	250-252
5492.	15a-1	АМРНІ	264-277
5493.	15a-1	АМРНІ	281-292
5494.	15a-1	Antigenic Index	18-20
5495.	15a-1	Antigenic Index	26-36
5496.	15a-1	Antigenic Index	38-40
5497.	15a-1	Antigenic Index	47-54
5498.	15a-1	Antigenic Index	58-61
5499.	15a-1	Antigenic Index	69-80
5500.	15a-1	Antigenic Index	86-88
5501.	15a-1	Antigenic Index	91-117
5502.	15a-1	Antigenic Index	132-147
5503.	15a-1	Antigenic Index	153-171
5504.	15a-1	Antigenic Index	184-186
5505.	15a-1	Antigenic Index	191-195
5506.	15a-1	Antigenic Index	207-212
5507.	15a-1	Antigenic Index	219-226
5508.	15a-1	Antigenic Index	233-247
5509.	15a-1	Antigenic Index	251-256
5510.	15a-1	Antigenic Index	263-275
5511.	15a-1	Antigenic Index	283-320
5512.	15a-1	Hydrophilicity	29-36
5513.	15a-1	Hydrophilicity	38-40
5514.	15a-1	Hydrophilicity	47-54
5515.	15a-1	Hydrophilicity	58-61
5516.	15a-1	Hydrophilicity	70-74
5517.	15a-1	Hydrophilicity	86-88
5518.	15a-1	Hydrophilicity	97-100
5519.	15a-1	Hydrophilicity	106-115
5520.	15a-1	Hydrophilicity	132-147
5521.	15a-1	Hydrophilicity	155-170
5522.	15a-1	Hydrophilicity	191-195
5523.	15a-1	Hydrophilicity	207-212
5524.	15a-1	Hydrophilicity	219-226

5526.	15a-1	Hydrophilicity	251-254
5527.	15a-1	Hydrophilicity	264-273
			294-303
5528.	15a-1	Hydrophilicity	
5529.	15a-1	Hydrophilicity	306-320
5530.	16a-1	AMPHI	41-50
5531.	16a-1	AMPHI	67-79
5532.	16a-1	AMPHI	98-104
5533.	16a-1	AMPHI	148-150
5534.	16a-1	AMPHI	162-166
5535.	16a-1	AMPHI	200-204
5536.	16a-1	АМРНІ	220-223
5537.	16a-1	AMPHI	231-234
5538.	16a-1	AMPHI	248-259
5539.	16a-1	АМРНІ	262-264
5540.	16a-1	AMPHI	29-314
5541.	16a-1	АМРНІ	316-318
5542.	16a-1	АМРНІ	320-326
5543.	16a-1	AMPHI	328-331
5544.	16a-1	АМРНІ	333-335
5545.	16a-1	АМРНІ	339-341
5546.	16a-1	АМРНІ	343-348
5547.	16a-1	АМРНІ	372-37
5548.	16a-1	АМРНІ	380-382
5549.	16a-1	АМРНІ	388-390
5550.	16a-1	АМРНІ	392-396
5551.	16a-1	AMPHI	405-422
5552.	16a-1	Antigenic Index	1-12
5553.	16a-1	Antigenic Index	38-43
5554.	16a-1	Antigenic Index	50-57
5555.	16a-1	Antigenic Index	77-91
5556.	16a-1	Antigenic Index	110-113
5557.	16a-1	Antigenic Index	152-161
5558.	16a-1	Antigenic Index	190-196
5559.	16a-1	Antigenic Index	222-232
5560.	16a-1	Antigenic Index	241-247
5561.	16a-1	Antigenic Index	253-256
5562.	16a-1	Antigenic Index	280-283
5563.	16a-1	Antigenic Index	291-298
5564.	16a-1	Antigenic Index	300-305
5565.	16a-1	Antigenic Index	327-333
5566.	16a-1	Antigenic Index	385-392
5567.	16a-1	Antigenic Index	397-400
5568.	16a-1	Antigenic Index	444-451
5569.	16a-1	Hydrophilicity	8-12
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5570.	16a-1	Hydrophilicity	52-54
5571.	16a-1	Hydrophilicity	80-91
5572.	16a-1	Hydrophilicity	152-159
5573.	16a-1	Hydrophilicity	190-196
5574.	16a-1	Hydrophilicity	222-228
5575.	16a-1	Hydrophilicity	230-232
5576.	16a-1	Hydrophilicity	241-247
5577.	16a-1	Hydrophilicity	253-256
5578.	16a-1	Hydrophilicity	293-295
5579.	16a-1	Hydrophilicity	327-333
5580.	16a-1	Hydrophilicity	446-449
5581.	17a-1	АМРНІ	17-25
5582.	17a-1	АМРНІ	46-50
5583.	17a-1	АМРНІ	65-72
5584.	17a-1	АМРНІ	87-98
5585.	17a-1	АМРНІ	104-107
5586.	17a-1	АМРНІ	136-160
5587.	17a-1	AMPHI	197-201
5588.	17a-1	АМРНІ	204-212
5589.	17a-1	АМРНІ	224-226
5590.	17a-1	Antigenic Index	26-29
5591.	17a-1	Antigenic Index	73-81
5592.	17a-1	Antigenic Index	127-140
5593.	17a-1	Antigenic Index	161-164
5594.	17a-1	Antigenic Index	181-186
5595.	17a-1	Antigenic Index	209-212
5596.	17a-1	Antigenic Index	239-252
5597.	17a-1	Hydrophilicity	74-81
5598.	17a-1	Hydrophilicity	127-137
5599.	17a-1	Hydrophilicity	239-252
5600.	18a-1	АМРНІ	10-12
5601.	18a-1	АМРНІ	46-54
5602.	18a-1	АМРНІ	101-103
5603.	18a-1	АМРНІ	113-120
5604.	18a-1	AMPHI	122-125
5605.	18a-1	AMPHI	132-140
5606.	18a-1	AMPHI	184-186
5607.	18a-1	Antigenic Index	78-96
5608.	18a-1	Antigenic Index	162-173
5609.	18a-1	Antigenic Index	175-177
5610.	18a-1	Antigenic Index	198-201
5611.	18a-1	Hydrophilicity	80-86
5612.	18a-1	Hydrophilicity	91-95
5613.	18a-1	Hydrophilicity	162-169

5614.	18a-1	Hydrophilicity	198-201
5615.	19a-1	AMPHI	15-19
5616.	19a-1	AMPHI	43-46
5617.	19a-1	AMPHI	49-53
5618.	19a-1	AMPHI	56-63
5619.	19a-1	AMPHI	66-72
5620.	19a-1	AMPHI	100-102
5621.	19a-1	AMPHI	117-122
5622.	19a-1	AMPHI	161-175
5623.	19a-1	AMPHI	204-211
5624.	19a-1	AMPHI	213-215
5625.	19a-1	AMPHI	227-236
5626.	19a-1	АМРНІ	242-247
5627.	19a-1	AMPHI	257-259
5628.	19a-1	AMPHI	267-275
5629.	19a-1	AMPHI	279-289
5630.	19a-1	AMPHI	298-311
5631.	19a-1	AMPHI	322-340
5632.	19a-1	АМРНІ	342-344
5633.	19a-1	AMPHI	366-371
5634.	19a-1	АМРНІ	400-404
5635.	19a-1	АМРНІ	439-451
5636.	19a-1	АМРНІ	487-493
5637.	19a-1	АМРНІ	499-502
5638.	19a-1	AMPHI	504-513
5639.	19a-1	AMPHI	549-561
5640.	19a-1	AMPHI	578-599
5641.	19a-1	AMPHI	610-620
5642.	19a-1	AMPHI	647-655
5643.	19a-1	AMPHI	660-665
5644.	19a-1	AMPHI	674-677
5645.	19a-1	AMPHI	693-715
5646.	19a-1	Antigenic Index	1-8
5647.	19a-1	Antigenic Index	31-35
5648.	19a-1	Antigenic Index	49-61
5649.	19a-1	Antigenic Index	81-83
5650.	19a-1	Antigenic Index	125-129
5651.	19a-1	Antigenic Index	156-162
5652.	19a-1	Antigenic Index	176-192
5653.	19a-1	Antigenic Index	194-197
5654.	19a-1	Antigenic Index	210-213
5655.	19a-1	Antigenic Index	219-232
5656.	19a-1	Antigenic Index	241-248
5657.	19a-1	Antigenic Index	251-265

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5658.	19a-1	Antigenic Index	276-285
5659.	19a-1	Antigenic Index	287-310
5660.	19a-1	Antigenic Index	312-340
5661.	19a-1	Antigenic Index	343-372
5662.	19a-1	Antigenic Index	376-384
5663.	19a-1	Antigenic Index	423-436
5664.	19a-1	Antigenic Index	455-457
5665.	19a-1	Antigenic Index	474-479
5666.	19a-1	Antigenic Index	526-529
5667.	19a-1	Antigenic Index	535-538
5668.	19a-1	Antigenic Index	551-577
5669.	19a-1	Antigenic Index	584-602
5670.	19a-1	Antigenic Index	620-634
5671.	19a-1	Antigenic Index	652-663
5672.	19a-1	Antigenic Index	665-683
5673.	19a-1	Antigenic Index	695-716
5674.	19a-1	Hydrophilicity	31-35
5675.	19a-1	Hydrophilicity	49-61
5676.	19a-1	Hydrophilicity	160-162
5677.	19a-1	Hydrophilicity	176-192
5678.	19a-1	Hydrophilicity	194-197
5679.	19a-1	Hydrophilicity	220-231
5680.	19a-1	Hydrophilicity	241-247
5681.	19a-1	Hydrophilicity	252-262
5682.	19a-1	Hydrophilicity	277-285
5683.	19a-1	Hydrophilicity	287-291
5684.	19a-1	Hydrophilicity	293-295
5685.	19a-1	Hydrophilicity	297-310
5686.	19a-1	Hydrophilicity	312-330
5687.	19a-1	Hydrophilicity	333-335
5688.	19a-1	Hydrophilicity	337-339
5689.	19a-1	Hydrophilicity	347-361
5690.	19a-1	Hydrophilicity	365-367
5691.	19a-1	Hydrophilicity	378-380
5692.	19a-1	Hydrophilicity	428-436
5693.	19a-1	Hydrophilicity	535-538
5694.	19a-1	Hydrophilicity	551-577
5695.	19a-1	Hydrophilicity	585-597
5696.	19a-1	Hydrophilicity	622-632
5697.	19a-1	Hydrophilicity	653-662
5698.	19a-1	Hydrophilicity	665-678
5699.	19a-1	Hydrophilicity	695-697
5700.	19a-1	Hydrophilicity	707-713
5701.	20a-1	AMPHI	6-22

5702.	20a-1	АМРНІ	30-36
5703.	20a-1	AMPHI	45-54
5704.	20a-1	AMPHI	62-66
5704.	20a-1	AMPHI	75-77
5705. 5706.	20a-1	AMPHI	80-89
5700. 5707.	20a-1	AMPHI	100-103
5707.	20a-1	AMPHI	143-157
5708. 5709.	20a-1	AMPHI	194-196
5710.	20a-1		210-216
		AMPHI	
5711. 5712.	20a-1	AMPHI	225-235
	20a-1	AMPHI	250-255
5713.	20a-1	AMPHI	270-286
5714.	20a-1	AMPHI	303-306
5715.	20a-1	AMPHI	314-316
5716.	20a-1	AMPHI	364-367
5717.	20a-1	AMPHI	391-406
5718.	20a-1	AMPHI	437-447
5719.	20a-1	AMPHI	472-478
5720.	20a-1	AMPHI	495-497
5721.	20a-1	Antigenic Index	26-28
5722.	20a-1	Antigenic Index	49-51
5723.	20a-1	Antigenic Index	54-56
5724.	20a-1	Antigenic Index	70-83
5725.	20a-1	Antigenic Index	114-126
5726.	20a-1	Antigenic Index	153-155
5727.	20a-1	Antigenic Index	180-186
5728.	20a-1	Antigenic Index	217-226
5729.	20a-1	Antigenic Index	228-231
5730.	20a-1	Antigenic Index	258-261
5731.	20a-1	Antigenic Index	268-276
5732.	20a-1	Antigenic Index	291-302
5733.	20a-1	Antigenic Index	376-384
5734.	20a-1	Antigenic Index	430-440
5735.	20a-1	Antigenic Index	474-480
5736.	20a-1	Antigenic Index	489-491
5737.	20a-1	Antigenic Index	502-512
5738.	20a-1	Hydrophilicity	26-28
5739.	20a-1	Hydrophilicity	49-51
5740.	20a-1	Hydrophilicity	54-56
5741.	20a-1	Hydrophilicity	70-83
5742.	20a-1	Hydrophilicity	117-126
5743.	20a-1	Hydrophilicity	217-226
5744.	20a-1	Hydrophilicity	228-231
5745.	20a-1	Hydrophilicity	270-273

5746.	20a-1	Hydrophilicity	292-302
5747.	20a-1	Hydrophilicity	378-380
5748.	20a-1	Hydrophilicity	382-384
5749.	20a-1	Hydrophilicity	475-480
5750.	20a-1	Hydrophilicity	502-512
5751.	22a-1	AMPHI	47-50
5752	22a-1	АМРНІ	76-79
5753.	22a-1	АМРНІ	106-115
5754.	22a-1	АМРНІ	119-122
5755	22a-1	АМРНІ	132-140
5756.	22a-1	АМРНІ	149-151
5757.	22a-1	АМРНІ	171-173
5758.	22a-1	АМРНІ	226-232
5759.	22a-1	AMPHI	244-249
5760	22a-1	АМРНІ	251-255
5761.	22a-1	AMPHI	271-174
5762.	22a-1	АМРНІ	277-281
5763.	22a-1	АМРНІ	286-292
5764.	22a-1	AMPHI	305-307
5765.	22a-1	АМРНІ	309-324
5766.	22a-1	АМРНІ	352-359
5767.	22a-1	АМРНІ	364-366
5768.	22a-1	АМРНІ	382-385
5769.	22a-1	АМРНІ	388-393
5770.	22a-1	Antigenic Index	2-8
5771.	22a-1	Antigenic Index	12-21
<u>57</u> 72.	22a-1	Antigenic Index	23-25
5773	22a-1	Antigenic Index	35-38
5774.	22a-1	Antigenic Index	40-65
5775.	22a-1	Antigenic Index	72-75
5776.	22a-1	Antigenic Index	80-87
5777.	22a-1	Antigenic Index	95-107
5778.	22a-1	Antigenic Index	114-122
5779.	22a-1	Antigenic Index	131-138
5780.	22a-1	Antigenic Index	140-146
5781.	22a-1	Antigenic Index	154-160
5782.	22a-1	Antigenic Index	168-178
5783.	22a-1	Antigenic Index	183-191
5784.	22a-1	Antigenic Index	198-206
5785.	22a-1	Antigenic Index	208-214
5786.	22a-1	Antigenic Index	216-222
5787.	22a-1	Antigenic Index	230-236
5788.	22a-1	Antigenic Index	253-263
5789.	22a-1	Antigenic Index	266-276

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5790.	22a-1	Antigenic Index	291-301
5791.	22a-1	Antigenic Index	315-318
5792.	22a-1	Antigenic Index	320-322
5793.	22a-1	Antigenic Index	326-334
5794.	22a-1	Antigenic Index	341-349
5795	22a-1	Antigenic Index	368-375
5796.	22a-1	Antigenic Index	379-385
5797.	22a-1	Antigenic Index	399-407
5798	22a-1	Antigenic Index	413-420
5799.	22a-1	Antigenic Index	426-436
5800.	22a-1	Antigenic Index	438-447
5801	22a-1	Hydrophilicity	2-8
5802.	22a-1	Hydrophilicity	14-20
5803.	22a-1	Hydrophilicity	35-38
5804.	22a-1	Hydrophilicity	41-64
5805.	22a-1	Hydrophilicity	80-87
5806.	22a-1	Hydrophilicity	95-107
5807.	22a-1	Hydrophilicity	114-119
5808.	22a-1	Hydrophilicity	132-137
5809.	22a-1	Hydrophilicity	140-146
5810.	22a-1	Hydrophilicity	168-178
5811.	22a-1	Hydrophilicity	183-191
5812.	22a-1	Hydrophilicity	198-206
5813	22a-1	Hydrophilicity	208-211
5814.	22a-1	Hydrophilicity	256-261
5815.	22a-1	Hydrophilicity	269-276
5816.	22a-1	Hydrophilicity	291-300
5817.	22a-1	Hydrophilicity	326-334
5818.	22a-1	Hydrophilicity	342-348
5819.	22a-1	Hydrophilicity	369-375
5820.	22a-1	Hydrophilicity	399-407
5821.	22a-1	Hydrophilicity	413-420
5822.	22a-1	Hydrophilicity	428-432
5823.	22a-1	Hydrophilicity	434-436
5824.	22a-1	Hydrophilicity	438-447
5825.	23a1	АМРНІ	27-35
5826.	23a1	АМРНІ	66-75
5827.	23a1	АМРНІ	88-94
5828.	23a1	AMPHI	131-133
5829.	23a1	АМРНІ	137-141
5830.	23a1	АМРНІ	146-164
5831.	23a1	АМРНІ	169-171
5832.	23a1	АМРНІ	215-223
5833.	23a1	АМРНІ	238-241

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5834.	23a1	AMPHI	288-290
5835.	23a1	АМРНІ	301-307
5836.	23a1	АМРНІ	330-336
5837.	23a1	AMPHI	346-352
5838.	23a1	АМРНІ	367-369
5839.	23a1	AMPHI	378-386
5840.	23a1	АМРНІ	401-426
5841.	23a1	АМРНІ	434-437
5842.	23a1	АМРНІ	443-446
5843.	23a1	АМРНІ	474-481
5844.	23a1	АМРНІ	515-523
5845.	23a1	AMPHI	562-572
5846.	23a1	AMPHI	601-603
5847.	23a1	АМРНІ	613-622
5848.	23a1	AMPHI	628-630
5849.	23a1	AMPHI	652-654
5850.	23a1	АМРНІ	663-667
5851.	23a1	AMPHI	697-704
5852.	23a1	Antigenic Index	22-35
5853.	23a1	Antigenic Index	42-53
5854.	23a1	Antigenic Index	67-73
5855.	23a1	Antigenic Index	81-92
5856.	23a1	Antigenic Index	99-114
5857.	23a1	Antigenic Index	118-124
5858.	23a1	Antigenic Index	136-144
5859.	23a1	Antigenic Index	146-155
5860.	23a1	Antigenic Index	160-169
5861.	23a1	Antigenic Index	173-196
5862.	23a1	Antigenic Index	202-216
5863.	23a1	Antigenic Index	220-237
5864.	23a1	Antigenic Index	245-251
5865.	23a1	Antigenic Index	253-266
5866.	23a1	Antigenic Index	274-277
5867.	23a1	Antigenic Index	282-291
5868.	23a1	Antigenic Index	293-299
5869.	23a1	Antigenic Index	306-332
5870.	23a1	Antigenic Index	340-344
5871.	23a1	Antigenic Index	354-361
5872.	23a1	Antigenic Index	368-379
5873.	23a1	Antigenic Index	387-399
5874.	23a1	Antigenic Index	401-405
5875.	23a1	Antigenic Index	407-420
5876.	23a1	Antigenic Index	426-435
5877.	23a1	Antigenic Index	441-446

5878.	23a1	Antigenic Index	454-470
5879.	23a1	Antigenic Index	477-483
5880.	23a1	Antigenic Index	506-516
5881.	23a1	Antigenic Index	519-524
5882.	23a1	Antigenic Index	526-529
5883.	23a1	Antigenic Index	531-534
5884.	23a1	Antigenic Index	536-539
5885.	23a1	Antigenic Index	544-552
5886.	23a1	Antigenic Index	555-565
5887.	23a1	Antigenic Index	569-590
5888.	23a1	Antigenic Index	593-617
5889.	23a1	Antigenic Index	627-632
5890.	23a1	Antigenic Index	637-639
5891.	23a1	Antigenic Index	641-651
5892.	23a1	Antigenic Index	654-671
5893.	23a1	Antigenic Index	681-689
5894.	23a1	Antigenic Index	691-693
5895.	23a1	Antigenic Index	695-711
5896.	23a1	Hydrophilicity	22-35
5897.	23a1	Hydrophilicity	42-51
5898.	23a1	Hydrophilicity	67-73
5899.	23a1	Hydrophilicity	81-92
5900.	23a1	Hydrophilicity	100-102
5901.	23a1	Hydrophilicity	106-112
5902.	23a1	Hydrophilicity	119-122
5903.	23a1	Hydrophilicity	136-142
5904.	23a1	Hydrophilicity	147-155
5905.	23a1	Hydrophilicity	163-169
5906.	23a1	Hydrophilicity	173-184
5907.	23a1	Hydrophilicity	186-196
5908.	23a1	Hydrophilicity	206-208
5909.	23a1	Hydrophilicity	210-216
5910.	23a1	Hydrophilicity	221-236
5911.	23a1	Hydrophilicity	249-251
5912.	23a1	Hydrophilicity	258-266
5913.	23a1	Hydrophilicity	283-288
5914.	23a1	Hydrophilicity	295-299
5915.	23a1	Hydrophilicity	306-312
5916.	23a1	Hydrophilicity	314-329
5917.	23a1	Hydrophilicity	356-361
5918.	23a1	Hydrophilicity	372-379
5919.	23a1	Hydrophilicity	392-398
5920.	23a1	Hydrophilicity	408-411
5921.	23a1	Hydrophilicity	429-434

5922.	23a1	Hydrophilicity	441-446
5923.	23a1	Hydrophilicity	455-469
5924.	23a1	Hydrophilicity	507-514
5925.	23a1	Hydrophilicity	526-529
5926.	23a1	Hydrophilicity	531-534
5927.	23a1	Hydrophilicity	536-539
5928.	23a1	Hydrophilicity	544-551
5929.	23a1	Hydrophilicity	555-561
5930.	23a1	Hydrophilicity	569-572
5931.	23a1	Hydrophilicity	580-582
5932.	23a1	Hydrophilicity	584-586
5933.	23a1	Hydrophilicity	595-617
5934.	23a1	Hydrophilicity	641-643
5935.	23a1	Hydrophilicity	645-648
5936.	23a1	Hydrophilicity	656-671
5937	23a1	Hydrophilicity	682-689
5938.	23a1	Hydrophilicity	700-709
5939.	24a-1	АМРНІ	35-38
5940.	24a-1	АМРНІ	46-56
5941.	24a-1	АМРНІ	72-90
5942.	24a-1	АМРНІ	106-108
5943.	24a-1	АМРНІ	116-122
5944.	24a-1	АМРНІ	134-153
5945.	24a-1	АМРНІ	171-174
5946.	24a-1	AMPHI	221-229
5947.	24a-1	Antigenic Index	36-42
5948.	24a-1	Antigenic Index	49-51
5949.	24a-1	Antigenic Index	53-57
5950.	24a-1	Antigenic Index	64-79
5951.	24a-1	Antigenic Index	93-96
5952.	24a-1	Antigenic Index	105-135
5953.	24a-1	Antigenic Index	141-153
5954.	24a-1	Antigenic Index	172-175
5955.	24a-1	Antigenic Index	178-187
5956.	24a-1	Antigenic Index	193-201
5957.	24a-1	Antigenic Index	218-224
5958.	24a-1	Antigenic Index	264-277
5959.	24a-1	Antigenic Index	280-292
5960.	24a-1	Hydrophilicity	38-41
5961.	24a-1	Hydrophilicity	74-76
5962.	24a-1	Hydrophilicity	110-121
5963.	24a-1	Hydrophilicity	125-132
5964.	24a-1	Hydrophilicity	141-149
5965.	24a-1	Hydrophilicity	182-185

5966.	24a-1	Hydrophilicity	193-199
5967.		Hydrophilicity	219-223
	24a-1		
5968.	24a-1	Hydrophilicity	265-277
5969.	24a-1	Hydrophilicity	282-292
5970.	25a-1	AMPHI	21-38
5971.	25a-1	AMPHI	40-46
5972.	25a-1	AMPHI	48-50
5973.	25a-1	AMPHI	77-85
5974.	25a-1	АМРНІ	105-107
5975.	25a-1	АМРНІ	120-125
5976.	25a-1	AMPHI	11-143
5977.	25a-1	AMPHI	189-192
5978.	25a-1	AMPHI	201-204
5979.	25a-1	АМРНІ	207-214
5980.	25a-1	АМРНІ	228-230
5981.	25a-1	AMPHI	269-278
5982.	25a-1	АМРНІ	280-282
5983.	25a-1	AMPHI	297-301
5984.	25a-1	АМРНІ	312-314
5985.	25a-1	Antigenic Index	17-30
5986.	25a-1	Antigenic Index	39-59
5987.	25a-1	Antigenic Index	61-65
5988.	25a-1	Antigenic Index	75-89
5989.	25a-1	Antigenic Index	99-111
5990.	25a-1	Antigenic Index	118-120
5991.	25a-1	Antigenic Index	122-138
5992.	25a-1	Antigenic Index	146-154
5993.	25a-1	Antigenic Index	182-194
5994.	25a-1	Antigenic Index	196-215
5995.	25a-1	Antigenic Index	217-248
5996.	25a-1	Antigenic Index	250-270
5997.	25a-1	Antigenic Index	274-312
5998.	25a-1	Antigenic Index	319-331
5999.	25a-1	Hydrophilicity	17-27
6000.	25a-1	Hydrophilicity	45-59
6001.	25a-1	Hydrophilicity	75-88
6002.	25a-1	Hydrophilicity	103-110
6003.	25a-1	Hydrophilicity	122-130
6004.	25a-1	Hydrophilicity	132-136
6005.	25a-1	Hydrophilicity	147-152
6006.	25a-1	Hydrophilicity	183-194
6007.	25a-1	Hydrophilicity	196-215
		Hydrophilicity	
6008.	25a-1		218-248
6009.	25a-1	Hydrophilicity	252-270

6010.	25a-1	Hydrophilicity	277-312
6011.	25a-1	Hydrophilicity	319-331
6012.	26a-1	AMPHI	6-15
6013.	26a-1	AMPHI	49-59
6014.	26a-1		
		AMPHI	86-91
6015.	26a-1	AMPHI	98-106
6016.	26a-1	AMPHI	126-134
6017.	26a-1	AMPHI	173-185
6018.	26a-1	AMPHI	188-190
6019.	26a-1	AMPHI	193-220
6020.	26a-1	AMPHI	227-233
6021.	26a-1	AMPHI	238-243
6022.	26a-1	AMPHI	250-257
6023.	26a-1	AMPHI	265-273
6024.	26a-1	AMPHI	283-290
6025.	26a-1	AMPHI	319-327
6026.	26a-1	AMPHI	346-348
6027.	26a-1	AMPHI	356-365
6028.	26a-1	AMPHI	387-391
6029.	26a-1	AMPHI	429-433
6030.	26a-1	AMPHI	447-457
6031.	26a-1	Antigenic Index	54-52
6032.	26a-1	Antigenic Index	54-57
6033.	26a-1	Antigenic Index	66-77
6034.	26a-1	Antigenic Index	94-99
6035.	26a-1	Antigenic Index	103-115
6036.	26a-1	Antigenic Index	129-131
6037.	26a-1	Antigenic Index	138-153
6038.	26a-1	Antigenic Index	160-162
6039.	26a-1	Antigenic Index	172-175
6040.	26a-1	Antigenic Index	190-193
6041.	26a-1	Antigenic Index	195-197
6042.	26a-1	Antigenic Index	226-229
6043.	26a-1	Antigenic Index	231-235
6044.	26a-1	Antigenic Index	240-253
6045.	26a-1	Antigenic Index	279-282
6046.	26a-1	Antigenic Index	290-298
6047.	26a-1	Antigenic Index	322-325
6048.	26a-1	Antigenic Index	330-335
6049	26a-1	Antigenic Index	352-359
6050.	26a-1	Antigenic Index	369-371
6051	26a-1	Antigenic Index	389-394
6052.	26a-1	Antigenic Index	407-411
6053.	26a-1	Antigenic Index	428-436

6054.	26a-1	Antigenic Index	441-449
6055.	26a-1	Antigenic Index	498-506
6056.	26a-1	Hydrophilicity	54-57
6057.	26a-1	Hydrophilicity	69-77
6058.	26a-1	Hydrophilicity	103-115
6059.	26a-1	Hydrophilicity	138-153
6060.	26a-1	Hydrophilicity	231-235
6061.	26a-1	Hydrophilicity	240-248
6062.	26a-1	Hydrophilicity	291-295
6063.	26a-1	Hydrophilicity	322-324
6064.	26a-1	Hydrophilicity	407-411
6065.	26a-1	Hydrophilicity	430-435
6066.	26a-1	Hydrophilicity	443-446
6067.	26a-1	Hydrophilicity	498-506
6068.	27a-1	AMPHI	6-8
6069.	27a-1	AMPHI	43-54
6070.	27a-1	AMPHI	56-60
6071.	27a-1	AMPHI	62-67
6072.	27a-1	AMPHI	78-86
6073.	27a-1	АМРНІ	102-105
6074.	27a-1	AMPHI	114-118
6075.	27a-1	AMPHI	137-146
6076.	27a-1	AMPHI	161-166
6077.	27a-1	АМРНІ	186-190
6078.	27a-1	AMPHI	193-196
6079.	27a-1	Antigenic Index	1-5
6080.	27a-1	Antigenic Index	30-40
6081.	27a-1	Antigenic Index	63-70
6082.	27a-1	Antigenic Index	86-88
6083.	27a-1	Antigenic Index	96-114
6084.	27a-1	Antigenic Index	117-126
6085.	27a-1	Antigenic Index	130-162
6086.	27a-1	Antigenic Index	167-174
6087.	27a-1	Antigenic Index	178-185
6088.	27a-1	Antigenic Index	188-197
6089.	27a-1	Antigenic Index	203-209
6090.	27a-1	Antigenic Index	213-242
6091.	27a-1	Hydrophilicity	1-5
6092.	27a-1	Hydrophilicity	33-35
6093.	27a-1	Hydrophilicity	64-69
6094.	27a-1	Hydrophilicity	98-103
6095.	27a-1	Hydrophilicity	106-114
6096.	27a-1	Hydrophilicity	121-126
6097.	27a-1	Hydrophilicity	133-139

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6099.	27a-1	Hydrophilicity	170-174
6100.	27a-1	Hydrophilicity	178-185
6101.	27a-1	Hydrophilicity	190-197
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6103.	27a-1	Hydrophilicity	234-238
6104.	27a-1	Hydrophilicity	240-242
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6106.	28a-1	АМРНІ	35-37
6107	28a-1	АМРНІ	78-90
6108.	28a-1	АМРНІ	92-95
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6110.	28a-1	АМРНІ	186-188
6111.	28a-1	АМРНІ	200-202
6112.	28a-1	AMPHI	204-206
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6117.	28a-1	Antigenic Index	74-81
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6120.	28a-1	Antigenic Index	110-125
6121.	28a-1	Antigenic Index	127-144
6122.	28a-1	Antigenic Index	146-156
6123.	28a-1	Antigenic Index	160-179
6124.	28a-1	Antigenic Index	182-187
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6128.	28a-1	Hydrophilicity	30-32
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6130.	28a-1	Hydrophilicity	51-62
6131.	28a-1	Hydrophilicity	75-81
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6138.	28a-1	Hydrophilicity	160-166
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6140.	28a-1	Hydrophilicity	177-179
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6148.	29a-1	AMPHI	129-136
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6150.	29a-1	АМРНІ	158-168
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6152.	29a-1	AMPHI	246-264
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6154.	29a-1	АМРНІ	298-307
6155.	29a-1	AMPHI	342-346
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6163.	29a-1	Antigenic Index	94-103
6164.	29a-1	Antigenic Index	105-125
6165.	29a-1	Antigenic Index	131-161
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6167.	29a-1	Antigenic Index	181-196
6168.	29a-1	Antigenic Index	200-206
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6172.	29a-1	Antigenic Index	264-268
6173.	29a-1	Antigenic Index	273-280
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6176.	29a-1	Antigenic Index	329-343
6177.	29a-1	Antigenic Index	345-349
6178.	29a-1	Antigenic Index	360-388
6179.	29a-1	Antigenic Index	401-404
6180.	29a-1	Antigenic Index	406-429
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6234.	32a-1	АМРНІ	85-87
6235.	32a-1	АМРНІ	93-101
6236.	32a-1	АМРНІ	128-135
6237.	32a-1	АМРНІ	157-161
6238	32a-1	АМРНІ	190-204
6239.	32a-1	АМРНІ	215-219
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6242.	32a-1	АМРНІ	310-313
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6276.	32a-1	Hydrophilicity	119-126
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6286.	32a-1	Hydrophilicity	314-327
6287.	32a-1	Hydrophilicity	329-333
6288.	32a-1	Hydrophilicity	352-358
6289.	32a-1	Hydrophilicity	366-371
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6298.	33a-1	АМРНІ	174-183
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6302.	33a-1	AMPHI	247-249
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6304.	33a-1	АМРНІ	285-296
6305.	33a-1	AMPHI	320-323
6306.	33a-1	AMPHI	339-345
6307.	33a-1	AMPHI	384-393
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6311.	33a-1	Antigenic Index	23-29
6312.	33a-1	Antigenic Index	31-68
6313.	33a-1	Antigenic Index	92-96
6314.	33a-1	Antigenic Index	131-144
6315.	33a-1	Antigenic Index	151-162
6316.	33a-1	Antigenic Index	166-170
6317.	33a-1	_ Antigenic Index	200-209

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6319.	33a-1	Antigenic Index	273-286
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6325.	33a-1	Antigenic Index	339-341
6326.	33a-1	Antigenic Index	344-357
6327.	33a-1	Antigenic Index	359-367
6328.	33a-1	Antigenic Index	377-385
6329.	33a-1	Antigenic Index	389-396
6330.	33a-1	Antigenic Index	408-419
6331.	33a-1	Antigenic Index	423-427
6332.	33a-1	Antigenic Index	433-449
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6334.	33a-1	Hydrophilicity	13-16
6335.	33a-1	Hydrophilicity	26-29
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6337.	33a-1	Hydrophilicity	138-143
6338.	33a-1		151-160
6339.	33a-1	Hydrophilicity	203-206
6340.	33a-1	Hydrophilicity	225-235
6341.	33a-1	Hydrophilicity	239-241
6342.	33a-1	Hydrophilicity	274-286
6343.	33a-1	Hydrophilicity	288-307
6344.	33a-1	Hydrophilicity	318-321
6345.	33a-1	Hydrophilicity	329-332
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6347.	33a-1	Hydrophilicity	339-341
6348.	33a-1	Hydrophilicity	344-346
6349.	33a-1	Hydrophilicity	348-357
6350.	33a-1	Hydrophilicity	359-367
6351.	33a-1	Hydrophilicity	378-385
6352.	33a-1	Hydrophilicity	389-396
6353.	33a-1	Hydrophilicity	408-419
6354.	33a-1	Hydrophilicity	433-449
6355.	34a-1	AMPHI	13-15
6356.	34a-1	AMPHI	57-63
6357.	34a-1	AMPHI	83-88
6358.	34a-1	AMPHI	107-115
6359.	34a-1	AMPHI	127-130
6360.	34a-1	AMPHI	140-150
6361.	34a-1	AMPHI	160-186

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6364.	34a-1	АМРНІ	228-240
6365.	34a-1	AMPHI	258-264
6366.	34a-1	АМРНІ	285-288
6367.	34a-1	AMPHI	307-316
6368.	34a-1	AMPHI	327-337
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6370	34a-1	АМРНІ	373-376
6371.	34a-1	АМРНІ	379-381
6372.	34a-1	АМРНІ	411-420
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6388.	34a-1	Antigenic Index	270-275
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6391.	34a-1	Antigenic Index	331-334
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6394.	34a-1	Antigenic Index	359-367
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6401.	34a-1	Hydrophilicity	131-139
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6408.	34a-1	Hydrophilicity	270-274
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6410.	34a-1	Hydrophilicity	293-301
6411.	34a-1	Hydrophilicity	312-323
6412.	34a-1	Hydrophilicity	349-355
6413.	34a-1	Hydrophilicity	361-367
6414.	34a-1	Hydrophilicity	384-388
6415.	34a-1	Hydrophilicity	396-402
6416.	34a-1	Hydrophilicity	404-436
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6418.	37a-1	AMPHI	24-31
6419.	37a-1	AMPHI	65-81
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6421.	37a-1	Antigenic Index	25-34
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6423.	37a-1	Antigenic Index	42-46
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6428.	37a-1	Hydrophilicity	25-34
6429.	37a-1	Hydrophilicity	51-63
6430.	37a-1	Hydrophilicity	75-88
6431.	46a-1	AMPHI	12-17
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6433.	46a-1	AMPHI	70-73
6434.	46a-1	AMPHI	76-78
6435.	46a-1	AMPHI	91-96
6436.	46a-1	АМРНІ	98-107
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6438.	46a-1	AMPHI	137-148
6439.	46a-1	AMPHI	156-159
6440.	46a-1	AMPHI	183-193
6441.	46a-1	AMPHI	196-209
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6446.	46a-1	AMPHI	
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6449.	46a-1	AMPHI	318-323

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6457.	46a-1	АМРНІ	470-478
6458.	46a-1	AMPHI	493-516
6459.	46a-1	Antigenic Index	3-7
6460.	46a-1	Antigenic Index	23-29
6461.	46a-1	Antigenic Index	31-33
6462.	46a-1	Antigenic Index	36-48
6463.	46a-1	Antigenic Index	52-66
6464.	46a-1	Antigenic Index	83-88
6465.	46a-1	Antigenic Index	95-123
6466.	46a-1	Antigenic Index	130-158
6467.	46a-1	Antigenic Index	160-164
6468.	46a-1	Antigenic Index	173-194
6469.	46a-1	Antigenic Index	199-220
6470.	46a-1	Antigenic Index	229-231
6471.	46a-1	Antigenic Index	243-247
6472.	46a-1	Antigenic Index	249-257
6473.	46a-1	Antigenic Index	268-280
6474.	46a-1	Antigenic Index	282-288
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6476.	46a-1	Antigenic Index	325-330
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6486.	46a-1	Hydrophilicity	31-33
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6488.	46a-1	Hydrophilicity	40-47
6489.	46a-1	Hydrophilicity	53-62
6490.	46a-1	Hydrophilicity	95-101
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6492.	46a-1	Hydrophilicity	140-146
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6499.	46a-1	Hydrophilicity	251-255
6500.	46a-1	Hydrophilicity	268-280
6501.	46a-1	Hydrophilicity	282-288
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6503.	46a-1	Hydrophilicity	338-344
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6521.	47a-1	AMPHI	95-101
6522.	47a-1	AMPHI	105-108
6523.	47a-1	АМРНІ	138-140
6524.	47a-1	AMPHI	158-168
6525.	47a-1	АМРНІ	174-181
6526.	47a-1	AMPHI	183-185
6527.	47a-1	AMPHI	188-190
6528.	47a-1	AMPHI	194-196
6529.	47a-1	AMPHI	241-250
6530.	47a-1	AMPHI	269-271
6531.	47a-1	AMPHI	292-296
6532.	47a-1	AMPHI	337-342
6533.	47a-1	Antigenic Index	2-5
6534.	47a-1	Antigenic Index	33-35
6535.	47a-1	Antigenic Index	37-43
6536.	47a-1	Antigenic Index	71-80
6537.	47a-1	Antigenic Index	125-133

6538.	47a-1	Antigenic Index	1355-158
6539.	47a-1	Antigenic Index	189-195
6540.	47a-1	Antigenic Index	197-204
6541.	47a-1	Antigenic Index	251-253
6542.	47a-1	Antigenic Index	311-316
6543.	47a-1	Antigenic Index	318-322
6544.	47a-1	Antigenic Index	344-347
6545.	47a-1	Antigenic Index	350-356
6546.	47a-1	Antigenic Index	375-384
6547.	47a-1	Hydrophilicity	2-5
6548.	47a-1	Hydrophilicity	75-78
6549.	47a-1	Hydrophilicity	127-132
6550.	47a-1	Hydrophilicity	191-194
6551.	47a-1	Hydrophilicity	251-253
6552.	47a-1	Hydrophilicity	352-354
6553.	47a-1	Hydrophilicity	377-384
6554.	48a-1	АМРНІ	45-53
6555.	48a-1	AMPHI	68-70
6556.	48a-1	AMPHI	72-106
6557.	48a-1	AMPHI	110-118
6558.	48a-1	АМРНІ	141-148
6559.	48a-1	AMPHI	156-168
6560.	48a-1	AMPHI	198-200
6561.	48a-1	АМРНІ	214-218
6562.	48a-1	АМРНІ	220-222
6563.	48a-1	АМРНІ	245-249
6564.	48a-1	AMPHI	272-277
6565.	48a-1	АМРНІ	279-285
6566.	48a-1	АМРНІ	287-290
6567.	48a-1	АМРНІ	294-307
6568.	48a-1	AMPHI	309-311
6569.	48a-1	AMPHI	320-323
6570.	48a-1	АМРНІ	338-342
6571.	48a-1	AMPHI	352-354
6572.	48a-1	АМРНІ	356-358
657 <u>3.</u>	48a-1	AMPHI	364-371
6574.	48a-1	AMPHI	385-387
657 <u>5.</u>	48a-1	AMPHI	408-416
657 <u>6</u> .	48a-1	AMPHI	420-431
6577.	48a-1	AMPHI	447-460
6578.	48a-1	Antigenic Index	8-12
6579.	48a-1	Antigenic Index	15-17
6580.	48a-1	Antigenic Index	134-142
6581.	48a-1	Antigenic Index	161-168

6582.	48a-1	Antigenic Index	174-178
6583.	48a-1	Antigenic Index	190-193
6584.	48a-1	Antigenic Index	208-214
6585.	48a-1	Antigenic Index	218-225
6586.	48a-1	Antigenic Index	233-235
6587.	48a-1	Antigenic Index	238-243
6588.	48a-1	Antigenic Index	251-256
6589.	48a-1	Antigenic Index	261-264
6590.	48a-1	Antigenic Index	272-278
6591.	48a-1	Antigenic Index	289-300
6592.	48a-1	Antigenic Index	302-311
6593.	48a-1	Antigenic Index	318-325
6594.	48a-1	Antigenic Index	328-342
6595.	48a-1	Antigenic Index	344-349
6596.	48a-1	Antigenic Index	355-363
6597.	48a-1	Antigenic Index	367-375
6598.	48a-1	Antigenic Index	385-394
6599.	48a-1	Antigenic Index	397-405
6600.	48a-1	Antigenic Index	407-416
6601.	48a-1	Antigenic Index	428-438
6602.	48a-1	Antigenic Index	444-463
6603.	48a-1	Antigenic Index	470-472
6604.	48a-1	Hydrophilicity	134-142
6605.	48a-1	Hydrophilicity	162-168
6606.	48a-1	Hydrophilicity	210-214
6607.	48a-1	Hydrophilicity	218-225
6608.	48a-1	Hydrophilicity	240-243
6609.	48a-1	Hydrophilicity	251-256
6610.	48a-1	Hydrophilicity	272-278
6611.	48a-1	Hydrophilicity	289-300
6612.	48a-1	Hydrophilicity	302-310
6613.	48a-1	Hydrophilicity	334-342
6614.	48a-1	Hydrophilicity	344-349
6615.	48a-1	Hydrophilicity	360-363
6616.	48a-1	Hydrophilicity	367-374
6617.	48a-1	Hydrophilicity	387-390
6618.	48a-1	Hydrophilicity	392-394
6619.	48a-1	Hydrophilicity	397-402
6620.	48a-1	Hydrophilicity	407-413
6621.	48a-1	Hydrophilicity	428-438
6622.	48a-1	Hydrophilicity	445-447
6623.	48a-1	Hydrophilicity	470-472
6624.	53a-1	AMPHI	54-58
6625.	53a-1	АМРНІ	73-79

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6626.	53a-1	AMPHI	144-151
6627.	53a-1	AMPHI	170-173
6628.	53a-1	AMPHI	196-199
6629.	53a-1	AMPHI	206-212
6630.	53a-1	AMPHI	240-242
6631.	53a-1	AMPHI	250-255
6632.	53a-1	AMPHI	265-276
6633.	53a-1	AMPHI	281-289
6634.	53a-1	AMPHI	292-294
6635.	53a-1	AMPHI	303-320
6636.	53a-1	АМРНІ	351-370
6637.	53a-1	AMPHI	392-394
6638.	53a-1	AMPHI	396-402
6639.	53a-1	Antigenic Index	1-5
6640.	53a-1	Antigenic Index	8-15
6641.	53a-1	Antigenic Index	36-38
6642.	53a-1	Antigenic Index	65-76
6643.	53a-1	Antigenic Index	79-84
6644.	53a-1	Antigenic Index	140-151
6645.	53a-1	Antigenic Index	170-183
6646.	53a-1	Antigenic Index	216-230
6647.	53a-1	Antigenic Index	256-261
6648.	53a-1	Antigenic Index	265-268
6649.	53a-1	Antigenic Index	282-285
6650.	53a-1	Antigenic Index	297-299
6651.	53a-1	Antigenic Index	307-309
6652.	53a-1	Antigenic Index	311-328
6653.	53a-1	Antigenic Index	339-342
6654.	53a-1	Antigenic Index	377-388
6655.	53a-1	Hydrophilicity	9-13
6656.	53a-1	Hydrophilicity	70-76
6657.	53a-1	Hydrophilicity	79-84
6658.	53a-1	Hydrophilicity	142-151
6659.	53a-1	Hydrophilicity	174-176
6660.	53a-1	Hydrophilicity	179-182
6661.	53a-1	Hydrophilicity	217-230
6662.	53a-1	Hydrophilicity	307-309
6663.	53a-1	Hydrophilicity	311-327
6664.	53a-1	Hydrophilicity	377-386
6665.	58a-1	AMPHI	30-33
6666.	58a-1	AMPHI	43-57
6667.	58a-1	AMPHI	78-84
6668.	58a-1	AMPHI	109-111
6669.	58a-1	AMPHI	113-124
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6670.	58a-1	АМРНІ	137-140
6671.	58a-1	AMPHI	173-176
6672.	58a-1	AMPHI	183-190
6673.	58a-1	АМРНІ	196-205
6674.	58a-1	AMPHI	222-228
6675.	58a-1	АМРНІ	235-242
6676.	58a-1	AMPHI	263-265
6677.	58a-1	AMPHI	267-275
6678.	58a-1	AMPHI	299-303
6679.	58a-1	AMPHI	311-315
6680.	58a-1	AMPHI	324-327
6681.	58a-1	AMPHI	335-340
6682.	58a-1	AMPHI	361-370
6683.	58a-1	AMPHI	397-403
6684.	58a-1	AMPHI	419-436
6685.	58a-1	AMPHI	446-454
6686.	58a-1	AMPHI	464-468
6687.	58a-1	AMPHI	501-508
6688.	58a-1	AMPHI	570-576
6689.	58a-1	AMPHI	597-606
6690.	58a-1	AMPHI	610-616
6691.	58a-1	AMPHI	636-645
6692.	58a-1	AMPHI	666-673
6693.	58a-1	AMPHI	693-701
6694.	58a-1	AMPHI	717-719
6695.	58a-1	AMPHI	721-730
6696.	58a-1	AMPHI	749-752
6697.	58a-1	AMPHI	755-765
6698.	58a-1	AMPHI	768-785
6699.	58a-1	AMPHI	792-797
6700.	58a-1	АМРНІ	806-811
6701.	58a-1	AMPHI	816-825
6702.	58a-1	AMPHI	845-853
6703.	58a-1	AMPHI	875-877
6704.	58a-1	AMPHI	897-903
6705.	58a-1	AMPHI	911-925
6706.	58a-1	AMPHI	929-939
6707.	58a-1	AMPHI	970-974
6708.	58a-1	AMPHI	982-992
6709.	58a-1	Antigenic Index	22-30
6710.	58a-1	Antigenic Index	33-57
6711.	58a-1	Antigenic Index	82-86
6711.	58a-1	Antigenic Index	88-175
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6714	F9- 1	Amticania Indan	101 222
6714.	58a-1	Antigenic Index	191-222
6715.	58a-1	Antigenic Index	227-237
6716.	58a-1	Antigenic Index	241-256
6717.	58a-1	Antigenic Index	258-267
6718.	58a-1	Antigenic Index	271-330
6719.	58a-1	Antigenic Index	332-362
6720.	58a-1	Antigenic Index	375-389
6721.	58a-1	Antigenic Index	396-403
6722.	58a-1	Antigenic Index	408-417
6723.	58a-1	Antigenic Index	419-445
6724.	58a-1	Antigenic Index	447-458
6725.	58a-1	Antigenic Index	460-489
6726.	58a-1	Antigenic Index	494-523
6727.	58a-1	Antigenic Index	526-529
6728.	58a-1	Antigenic Index	537-550
6729.	58a-1	Antigenic Index	555-569
6730.	58a-1	Antigenic Index	571-574
6731.	58a-1	Antigenic Index	581-593
6732.	58a-1	Antigenic Index	596-602
6733.	58a-1	Antigenic Index	616-618
6734.	58a-1	Antigenic Index	620-622
6735.	58a-1	Antigenic Index	626-635
6736.	58a-1	Antigenic Index	641-652
6737.	58a-1	Antigenic Index	657-662
6738.	58a-1	Antigenic Index	668-671
6739.	58a-1	Antigenic Index	680-688
6740.	58a-1	Antigenic Index	700-706
6741.	58a-1	Antigenic Index	711-715
6742.	58a-1	Antigenic Index	734-736
6743.	58a-1	Antigenic Index	747-753
6744.	58a-1	Antigenic Index	764-782
6745.	58a-1	Antigenic Index	785-795
6746.	58a-1	Antigenic Index	806-808
6747.	58a-1	Antigenic Index	813-822
6748.	58a-1	Antigenic Index	825-831
6749.	58a-1	Antigenic Index	840-846
6750.	58a-1	Antigenic Index	864-874
6751.	58a-1	Antigenic Index	884-887
6752.	58a-1	Antigenic Index	892-901
6753.	58a-1	Antigenic Index	906-913
6754.	58a-1	Antigenic Index	920-958
6755.	58a-1	Antigenic Index	962-976
6756.	58a-1	Antigenic Index	979-994
6757.	58a-1	Antigenic Index  Antigenic Index	998-1006
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6758.	58a-1	Antigenic Index	1010-1014
6759.	58a-1	Hydrophilicity	22-30
6760.	58a-1	Hydrophilicity	33-57
6761.	58a-1	Hydrophilicity	88-97
6762.	58a-1	Hydrophilicity	100-142
6763.	58a-1	Hydrophilicity	146-158
6764.	58a-1	Hydrophilicity	162-170
6765.	58a-1	Hydrophilicity	173-175
6766.	58a-1	Hydrophilicity	178-188
6767.	58a-1	Hydrophilicity	191-220
6768.	58a-1	Hydrophilicity	227-233
6769.	58a-1	Hydrophilicity	241-255
6770.	58a-1	Hydrophilicity	259-264
6771.	58a-1	Hydrophilicity	271-277
6772.	58a-1	Hydrophilicity	279-301
6773.	58a-1	Hydrophilicity	304-307
6774.	58a-1	Hydrophilicity	309-330
6775.	58a-1	Hydrophilicity	332-362
6776.	58a-1	Hydrophilicity	375-389
6777.	58a-1	Hydrophilicity	397-402
6778.	58a-1	Hydrophilicity	409-412
6779.	58a-1	Hydrophilicity	423-425
6780.	58a-1	Hydrophilicity	432-445
6781.	58a-1	Hydrophilicity	447-449
6782.	58a-1	Hydrophilicity	453-458
6783.	58a-1	Hydrophilicity	462-473
6784.	58a-1	Hydrophilicity	478-484
6785.	58a-1	Hydrophilicity	496-523
6786.	58a-1	Hydrophilicity	543-549
6787.	58a-1	Hydrophilicity	555-569
6788.	58a-1	Hydrophilicity	581-591
6789.	58a-1	Hydrophilicity	596-602
6790.	58a-1	Hydrophilicity	627-635
6791.	58a-1	Hydrophilicity	644-652
6792.	58a-1	Hydrophilicity	668-671
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6793. 6794.	58a-1 58a-1	Hydrophilicity Hydrophilicity	682-688 700-706
6795.	58a-1	Hydrophilicity	713-715
6796.	58a-1	Hydrophilicity	734-736
6797.	58a-1	Hydrophilicity	747-753
6798.	58a-1	Hydrophilicity	766-781
6799.	58a-1	Hydrophilicity	788-795
6800.	58a-1	Hydrophilicity	806-808
6801.	58a-1	Hydrophilicity	814-822

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6802.	58a-1	Hydrophilicity	825-831
6803.	58a-1	Hydrophilicity	841-845
6804.	58a-1	Hydrophilicity	866-874
6805.	58a-1	Hydrophilicity	906-913
6806.	58a-1	Hydrophilicity	921-923
6807.	58a-1	Hydrophilicity	925-932
6808.	58a-1	Hydrophilicity	934-941
6809.	58a-1	Hydrophilicity	943-958
6810.	58a-1	Hydrophilicity	962-968
6811.	58a-1	Hydrophilicity	974-976
6812.	58a-1	Hydrophilicity	982-994
6813.	58a-1	Hydrophilicity	999-1004
6814.	58a-1	Hydrophilicity	1012-1014
6815.	62a-1	АМРНІ	6-8
6816.	62a-1	AMPHI	38-57
6817.	62a-1	AMPHI	66-75
6818.	62a-1	АМРНІ	155-171
6819.	62a-1	AMPHI	228-235
6820.	62a-1	АМРНІ	246-249
6821.	62a-1	АМРНІ	260-270
6822.	62a-1	Antigenic Index	44-59
6823.	62a-1	Antigenic Index	107-112
6824.	62a-1	Antigenic Index	132-141
6825.	62a-1	Antigenic Index	160-163
6826.	62a-1	Antigenic Index	165-167
6827.	62a-1	Antigenic Index	224-232
6828.	62a-1	Antigenic Index	258-260
6829.	62a-1	Antigenic Index	280-284
6830.	62a-1	Hydrophilicity	45-59
6831.	62a-1	Hydrophilicity	109-112
6832.	62a-1	Hydrophilicity	133-139
6833.	62a-1	Hydrophilicity	160-163
6834.	62a-1	Hydrophilicity	165-167
6835.	62a-1	Hydrophilicity	227-229
6836.	62a-1	Hydrophilicity	280-284
6837.	61a-1	AMPHI	7-31
6838.	61a-1	АМРНІ	37-53
6839.	61a-1	AMPHI	55-77
6840.	61a-1	AMPHI	98-100
6841.	61a-1	AMPHI	104-107
6842.	61a-1	АМРНІ	124-137
6843.	61a-1	AMPHI	155-158
6844.	61a-1	AMPHI	165-170
6845.	61a-1	АМРНІ	198-200

6846.	61a-1	АМРНІ	219-230
6847.	61a-1	AMPHI	245-250
6848.	61a-1	AMPHI	265-268
6849.	61a-1	AMPHI	291-303
6850.	61a-1	AMPHI	362-374
6851.	61a-1	AMPHI	376-382
6852.	61a-1	AMPHI	391-399
6853.	61a-1	AMPHI	404-406
6854.	61a-1	AMPHI	426-443
6855.	61a-1	AMPHI	493-498
6856.	61a-1	АМРНІ	511-521
6857.	61a-1	AMPHI	541-543
6858.	61a-1	АМРНІ	550-559
6859.	61a-1	AMPHI	567-569
6860.	61a-1	AMPHI	576-581
6861.	61a-1	Antigenic Index	6-8
6862.	61a-1	Antigenic Index	15-17
6863.	61a-1	Antigenic Index	28-36
6864.	61a-1	Antigenic Index	38-41
6865.	61a-1	Antigenic Index	50-58
6866.	61a-1_	Antigenic Index	71-82
6867.	61a-1	Antigenic Index	86-99
6868.	61a-1	Antigenic Index	102-110
6869.	61a-1	Antigenic Index	116-135
6870.	61a-1	Antigenic Index	141-143
6871.	61a-1	Antigenic Index	145-154
6872.	61a-1	Antigenic Index	162-168
6873.	61a-1	Antigenic Index	170-172
6874.	61a-1	Antigenic Index	174-180
6875.	61°a-1	Antigenic Index	182-190
6876.	61a-1	Antigenic Index	196-204
6877.	61a-1	Antigenic Index	215-221
6878.	61a-1	Antigenic Index	231-239
6879.	61a-1	Antigenic Index	258-264
6880.	61a-1	Antigenic Index	272-279
6881.	61a-1	Antigenic Index	284-291
6882.	61a-1	Antigenic Index	293-302
6883.	61a-1	Antigenic Index	307-339
6884.	61a-1	Antigenic Index	344-350
6885.	61a-1	Antigenic Index	356-359
6886.	61a-1	Antigenic Index	364-375
6887.	61a-1	Antigenic Index	378-388
6888.	61a-1	Antigenic Index	395-403
6889.	61a-1	Antigenic Index	405-411

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6890.         61a-1         Antigenic Index         413-416           6891.         61a-1         Antigenic Index         424-437           6892.         61a-1         Antigenic Index         460-473           6893.         61a-1         Antigenic Index         464-473           6894.         61a-1         Antigenic Index         492-503           6895.         61a-1         Antigenic Index         507-510           6897.         61a-1         Antigenic Index         529-541           6898.         61a-1         Antigenic Index         529-541           6899.         61a-1         Antigenic Index         565-571           6900.         61a-1         Antigenic Index         584-592           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         28-36           6903.         61a-1         Hydrophilicity         71-82           6904.         61a-1         Hydrophilicity         71-82           6905.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity				
6892.         61a-1         Antigenic Index         440-450           6893.         61a-1         Antigenic Index         464-473           6894.         61a-1         Antigenic Index         483-488           6895.         61a-1         Antigenic Index         507-510           6896.         61a-1         Antigenic Index         507-510           6897.         61a-1         Antigenic Index         522-541           6898.         61a-1         Antigenic Index         547-555           6899.         61a-1         Antigenic Index         555-571           6900.         61a-1         Antigenic Index         565-571           6900.         61a-1         Hydrophilicity         15-17           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         71-82           6903.         61a-1         Hydrophilicity         80-9           6904.         61a-1         Hydrophilicity         102-10           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity	6890.	61a-1	Antigenic Index	413-416
6892.         61a-1         Antigenic Index         440-450           6893.         61a-1         Antigenic Index         464-473           6894.         61a-1         Antigenic Index         483-488           6895.         61a-1         Antigenic Index         507-510           6896.         61a-1         Antigenic Index         507-510           6897.         61a-1         Antigenic Index         522-541           6898.         61a-1         Antigenic Index         547-555           6899.         61a-1         Antigenic Index         555-571           6900.         61a-1         Antigenic Index         565-571           6900.         61a-1         Hydrophilicity         15-17           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         71-82           6903.         61a-1         Hydrophilicity         80-9           6904.         61a-1         Hydrophilicity         102-10           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity	6891.	61a-1	Antigenic Index	424-437
6894.         61a-1         Antigenic Index         483-488           6895.         61a-1         Antigenic Index         492-503           6896.         61a-1         Antigenic Index         507-510           6897.         61a-1         Antigenic Index         529-541           6898.         61a-1         Antigenic Index         547-555           6899.         61a-1         Antigenic Index         565-571           6900.         61a-1         Hydrophilicity         15-17           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         50-55           6903.         61a-1         Hydrophilicity         71-82           6904.         61a-1         Hydrophilicity         86-99           6904.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6906.         61a-1         Hydrophilicity         118-135           6907.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         170-172           6910.         61a-1         Hydrophilicity         <	6892.	61a-1		440-450
6894.         61a-1         Antigenic Index         483-488           6895.         61a-1         Antigenic Index         492-503           6896.         61a-1         Antigenic Index         507-510           6897.         61a-1         Antigenic Index         529-541           6898.         61a-1         Antigenic Index         547-555           6899.         61a-1         Antigenic Index         565-571           6900.         61a-1         Hydrophilicity         15-17           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         50-55           6903.         61a-1         Hydrophilicity         71-82           6904.         61a-1         Hydrophilicity         86-99           6904.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6906.         61a-1         Hydrophilicity         118-135           6907.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         170-172           6910.         61a-1         Hydrophilicity         <	6893.	61a-1	Antigenic Index	464-473
6895.         61a-1         Antigenic Index         492-503           6896.         61a-1         Antigenic Index         507-510           6897.         61a-1         Antigenic Index         529-541           6898.         61a-1         Antigenic Index         547-555           6899.         61a-1         Antigenic Index         565-571           6900.         61a-1         Hydrophilicity         15-17           6901.         61a-1         Hydrophilicity         28-36           6901.         61a-1         Hydrophilicity         50-55           6903.         61a-1         Hydrophilicity         71-82           6904.         61a-1         Hydrophilicity         102-110           6905.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         118-135           6909.         61a-1         Hydrophilicity         118-150           6909.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity	6894.	61a-1		483-488
6897.         61a-1         Antigenic Index         529-541           6898.         61a-1         Antigenic Index         547-555           6899.         61a-1         Antigenic Index         565-571           6900.         61a-1         Antigenic Index         584-592           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         50-55           6903.         61a-1         Hydrophilicity         71-82           6905.         61a-1         Hydrophilicity         86-99           6906.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         170-172           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         <	6895.	61a-1	Antigenic Index	492-503
6898.         61a-1         Antigenic Index         547-555           6899.         61a-1         Antigenic Index         565-571           6900.         61a-1         Antigenic Index         584-592           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         50-55           6903.         61a-1         Hydrophilicity         71-82           6904.         61a-1         Hydrophilicity         102-110           6905.         61a-1         Hydrophilicity         118-135           6906.         61a-1         Hydrophilicity         118-135           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         196-202           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         223-239           6915.         61a-1         Hydrophilicity	6896.	61a-1	Antigenic Index	507-510
6899.         61a-1         Antigenic Index         565-571           6900.         61a-1         Antigenic Index         584-592           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         28-36           6903.         61a-1         Hydrophilicity         50-55           6904.         61a-1         Hydrophilicity         71-82           6905.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         196-208           6912.         61a-1         Hydrophilicity         196-202           6911.         61a-1         Hydrophilicity         196-202           6911.         61a-1         Hydrophilicity         217-221           6913.         61a-1         Hydrophilicity         222-239           6915.         61a-1         Hydrophilicity <td< td=""><td>6897.</td><td>61a-1</td><td>Antigenic Index</td><td>529-541</td></td<>	6897.	61a-1	Antigenic Index	529-541
6900.         61a-1         Antigenic Index         584-592           6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         28-36           6903.         61a-1         Hydrophilicity         71-82           6904.         61a-1         Hydrophilicity         71-82           6905.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         170-172           6910.         61a-1         Hydrophilicity         183-190           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         232-239           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity	6898.	61a-1	Antigenic Index	547-555
6901.         61a-1         Hydrophilicity         15-17           6902.         61a-1         Hydrophilicity         28-36           6903.         61a-1         Hydrophilicity         50-55           6904.         61a-1         Hydrophilicity         71-82           6905.         61a-1         Hydrophilicity         102-110           6906.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         183-190           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         272-279           6916.         61a-1         Hydrophilicity         285-291           6917.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         3	6899.	61a-1	Antigenic Index	565-571
6902.         61a-1         Hydrophilicity         28-36           6903.         61a-1         Hydrophilicity         50-55           6904.         61a-1         Hydrophilicity         71-82           6905.         61a-1         Hydrophilicity         102-110           6906.         61a-1         Hydrophilicity         118-135           6907.         61a-1         Hydrophilicity         148-150           6908.         61a-1         Hydrophilicity         162-168           6909.         61a-1         Hydrophilicity         170-172           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         196-202           6912.         61a-1         Hydrophilicity         217-221           6913.         61a-1         Hydrophilicity         232-239           6914.         61a-1         Hydrophilicity         259-263           6915.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity <td< td=""><td>6900.</td><td>61a-1</td><td>Antigenic Index</td><td>584-592</td></td<>	6900.	61a-1	Antigenic Index	584-592
6903.         61a-1         Hydrophilicity         50-55           6904.         61a-1         Hydrophilicity         71-82           6905.         61a-1         Hydrophilicity         86-99           6906.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         183-190           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         232-300           6918.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity <td< td=""><td>6901.</td><td>61a-1</td><td>Hydrophilicity</td><td>15-17</td></td<>	6901.	61a-1	Hydrophilicity	15-17
6904.         61a-1         Hydrophilicity         71-82           6905.         61a-1         Hydrophilicity         86-99           6906.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         183-190           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         272-279           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         307-316           6918.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         <	6902.	61a-1	Hydrophilicity	28-36
6905.         61a-1         Hydrophilicity         86-99           6906.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         196-202           6912.         61a-1         Hydrophilicity         217-221           6913.         61a-1         Hydrophilicity         232-239           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         307-316           6921.         61a-1         Hydrophilicity         367-372           6922.         61a-1         Hydrophilicity	6903.	61a-1	Hydrophilicity	50-55
6906.         61a-1         Hydrophilicity         102-110           6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity	6904.	61a-1	Hydrophilicity	71-82
6907.         61a-1         Hydrophilicity         118-135           6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         346-350           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         405-411           6925.         61a-1         Hydrophilicity	6905.	61a-1	Hydrophilicity	86-99
6908.         61a-1         Hydrophilicity         148-150           6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         183-190           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         307-316           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         346-350           6921.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         405-411           6926.         61a-1         Hydrophilicity	6906.	61a-1	Hydrophilicity	102-110
6909.         61a-1         Hydrophilicity         162-168           6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         183-190           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         378-386           6923.         61a-1         Hydrophilicity         395-402           6925.         61a-1         Hydrophilicity         405-411           6926.         61a-1         Hydrophilicity	6907.	61a-1	Hydrophilicity	118-135
6910.         61a-1         Hydrophilicity         170-172           6911.         61a-1         Hydrophilicity         183-190           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         405-411           6925.         61a-1         Hydrophilicity         424-434           6927.         61a-1         Hydrophilicity	6908.	61a-1	Hydrophilicity	148-150
6911.         61a-1         Hydrophilicity         183-190           6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         405-411           6925.         61a-1         Hydrophilicity         424-434           6927.         61a-1         Hydrophilicity         442-448           6928.         61a-1         Hydrophilicity	6909.	61a-1	Hydrophilicity	162-168
6912.         61a-1         Hydrophilicity         196-202           6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         405-411           6925.         61a-1         Hydrophilicity         424-434           6927.         61a-1         Hydrophilicity         442-448           6928.         61a-1         Hydrophilicity         483-488           6930.         61a-1         Hydrophilicity	6910.	61a-1	Hydrophilicity	170-172
6913.         61a-1         Hydrophilicity         217-221           6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         395-402           6925.         61a-1         Hydrophilicity         405-411           6926.         61a-1         Hydrophilicity         424-434           6927.         61a-1         Hydrophilicity         442-448           6929.         61a-1         Hydrophilicity         483-488           6930.         61a-1         Hydrophilicity	6911.	61a-1	Hydrophilicity	183-190
6914.         61a-1         Hydrophilicity         232-239           6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         367-372           6922.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         395-402           6925.         61a-1         Hydrophilicity         405-411           6926.         61a-1         Hydrophilicity         424-434           6927.         61a-1         Hydrophilicity         442-448           6928.         61a-1         Hydrophilicity         483-488           6930.         61a-1         Hydrophilicity         493-503           6931.         61a-1         Hydrophilicity         529-541           6932.         61a-1         Hydrophilicity	6912.	61a-1	Hydrophilicity	196-202
6915.         61a-1         Hydrophilicity         259-263           6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         405-411           6925.         61a-1         Hydrophilicity         424-434           6926.         61a-1         Hydrophilicity         442-448           6927.         61a-1         Hydrophilicity         464-470           6928.         61a-1         Hydrophilicity         483-488           6930.         61a-1         Hydrophilicity         493-503           6931.         61a-1         Hydrophilicity         529-541           6932.         61a-1         Hydrophilicity	6913.	61a-1	Hydrophilicity	217-221
6916.         61a-1         Hydrophilicity         272-279           6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         395-402           6925.         61a-1         Hydrophilicity         405-411           6926.         61a-1         Hydrophilicity         424-434           6927.         61a-1         Hydrophilicity         442-448           6928.         61a-1         Hydrophilicity         464-470           6929.         61a-1         Hydrophilicity         493-503           6931.         61a-1         Hydrophilicity         529-541           6932.         61a-1         Hydrophilicity         549-555	6914.	61a-1	Hydrophilicity	232-239
6917.         61a-1         Hydrophilicity         285-291           6918.         61a-1         Hydrophilicity         293-300           6919.         61a-1         Hydrophilicity         307-316           6920.         61a-1         Hydrophilicity         320-339           6921.         61a-1         Hydrophilicity         346-350           6922.         61a-1         Hydrophilicity         367-372           6923.         61a-1         Hydrophilicity         378-386           6924.         61a-1         Hydrophilicity         405-411           6925.         61a-1         Hydrophilicity         424-434           6926.         61a-1         Hydrophilicity         442-448           6927.         61a-1         Hydrophilicity         464-470           6929.         61a-1         Hydrophilicity         483-488           6930.         61a-1         Hydrophilicity         493-503           6931.         61a-1         Hydrophilicity         529-541           6932.         61a-1         Hydrophilicity         549-555	6915.	61a-1	Hydrophilicity	259-263
6918.       61a-1       Hydrophilicity       293-300         6919.       61a-1       Hydrophilicity       307-316         6920.       61a-1       Hydrophilicity       320-339         6921.       61a-1       Hydrophilicity       346-350         6922.       61a-1       Hydrophilicity       367-372         6923.       61a-1       Hydrophilicity       378-386         6924.       61a-1       Hydrophilicity       405-411         6925.       61a-1       Hydrophilicity       424-434         6926.       61a-1       Hydrophilicity       442-448         6927.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       483-488         6930.       61a-1       Hydrophilicity       493-503         6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6916.	61a-1	Hydrophilicity	272-279
6919.       61a-1       Hydrophilicity       307-316         6920.       61a-1       Hydrophilicity       320-339         6921.       61a-1       Hydrophilicity       346-350         6922.       61a-1       Hydrophilicity       367-372         6923.       61a-1       Hydrophilicity       378-386         6924.       61a-1       Hydrophilicity       395-402         6925.       61a-1       Hydrophilicity       405-411         6926.       61a-1       Hydrophilicity       424-434         6927.       61a-1       Hydrophilicity       442-448         6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       493-503         6930.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6917.	61a-1	Hydrophilicity	285-291
6920.       61a-1       Hydrophilicity       320-339         6921.       61a-1       Hydrophilicity       346-350         6922.       61a-1       Hydrophilicity       367-372         6923.       61a-1       Hydrophilicity       378-386         6924.       61a-1       Hydrophilicity       395-402         6925.       61a-1       Hydrophilicity       405-411         6926.       61a-1       Hydrophilicity       424-434         6927.       61a-1       Hydrophilicity       442-448         6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       493-503         6930.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6918.	61a-1	Hydrophilicity	293-300
6921.       61a-1       Hydrophilicity       346-350         6922.       61a-1       Hydrophilicity       367-372         6923.       61a-1       Hydrophilicity       378-386         6924.       61a-1       Hydrophilicity       395-402         6925.       61a-1       Hydrophilicity       405-411         6926.       61a-1       Hydrophilicity       424-434         6927.       61a-1       Hydrophilicity       464-470         6928.       61a-1       Hydrophilicity       483-488         6930.       61a-1       Hydrophilicity       493-503         6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6919.	61a-1	Hydrophilicity	307-316
6922.       61a-1       Hydrophilicity       367-372         6923.       61a-1       Hydrophilicity       378-386         6924.       61a-1       Hydrophilicity       395-402         6925.       61a-1       Hydrophilicity       405-411         6926.       61a-1       Hydrophilicity       424-434         6927.       61a-1       Hydrophilicity       442-448         6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       493-503         6930.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6920.	61a-1	Hydrophilicity	320-339
6923.       61a-1       Hydrophilicity       378-386         6924.       61a-1       Hydrophilicity       395-402         6925.       61a-1       Hydrophilicity       405-411         6926.       61a-1       Hydrophilicity       424-434         6927.       61a-1       Hydrophilicity       442-448         6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       493-503         6930.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6921.	61a-1	Hydrophilicity	346-350
6924.       61a-1       Hydrophilicity       395-402         6925.       61a-1       Hydrophilicity       405-411         6926.       61a-1       Hydrophilicity       424-434         6927.       61a-1       Hydrophilicity       442-448         6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       483-488         6930.       61a-1       Hydrophilicity       529-541         6931.       61a-1       Hydrophilicity       549-555	6922.	61a-1	Hydrophilicity	367-372
6925.       61a-1       Hydrophilicity       405-411         6926.       61a-1       Hydrophilicity       424-434         6927.       61a-1       Hydrophilicity       442-448         6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       483-488         6930.       61a-1       Hydrophilicity       493-503         6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6923.	61a-1	Hydrophilicity	378-386
6926.       61a-1       Hydrophilicity       424-434         6927.       61a-1       Hydrophilicity       442-448         6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       483-488         6930.       61a-1       Hydrophilicity       493-503         6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6924.	61a-1	Hydrophilicity	395-402
6927.       61a-1       Hydrophilicity       442-448         6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       483-488         6930.       61a-1       Hydrophilicity       493-503         6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6925.	61a-1	Hydrophilicity	405-411
6928.       61a-1       Hydrophilicity       464-470         6929.       61a-1       Hydrophilicity       483-488         6930.       61a-1       Hydrophilicity       493-503         6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6926.	61a-1	Hydrophilicity	424-434
6929.       61a-1       Hydrophilicity       483-488         6930.       61a-1       Hydrophilicity       493-503         6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6927.	61a-1	Hydrophilicity	442-448
6930.       61a-1       Hydrophilicity       493-503         6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6928.	61a-1	Hydrophilicity	464-470
6931.       61a-1       Hydrophilicity       529-541         6932.       61a-1       Hydrophilicity       549-555	6929.	61a-1	Hydrophilicity	483-488
6932. 61a-1 Hydrophilicity 549-555	6930.	61a-1	Hydrophilicity	493-503
	6931.	61a-1	Hydrophilicity	529-541
6933.   61a-1   Hydrophilicity   565-571	6932.	61a-1	Hydrophilicity	549-555
	6933.	61a-1	Hydrophilicity	565-571

6934.	61a-1	Hydrophilicity	585-592
6935.	64a-1	AMPHI	8-12
6936.	64a-1	АМРНІ	25-28
6937.	64a-1	AMPHI	69-86
6938.	64a-1	AMPHI	97-119
6939.	64a-1	AMPHI	143-146
6940.	64a-1	AMPHI	150-164
6941.	64a-1	AMPHI	167-170
6942.	64a-1	AMPHI	177-183
6943.	64a-1	AMPHI	188-190
6944.	64a-1	AMPHI	200-211
6945.	64a-1	AMPHI	214-216
6946.	64a-1	AMPHI	240-244
6947.	64a-1	AMPHI	278-288
6948.	64a-1	AMPHI	298-304
6949.	64a-1	AMPHI	307-313
6950.	64a-1	AMPHI	327-340
6951.	64a-1	AMPHI	364-373
6952.	64a-1	AMPHI	383-393
6953.	64a-1	AMPHI	395-400
6954.	64a-1	AMPHI	422-429
6955.	64a-1	AMPHI	486-498
6956.	64a-1	AMPHI	529-555
6957.	64a-1	АМРНІ	564-571
6958.	64a-1	AMPHI	600-617
6959.	64a-1	AMPHI	646-658
6960.	64a-1	AMPHI	669-671
6961.	64a-1	AMPHI	675-678
6962.	64a-1	Antigenic Index	1-3
6963.	64a-1	Antigenic Index	23-30
6964.	64a-1	Antigenic Index	58-67
6965.	64a-1	Antigenic Index	71-78
6966.	64a-1	Antigenic Index	103-124
6967.	64a-1	Antigenic Index	132-134
6968.	64a-1	Antigenic Index	148-156
6969.	64a-1	Antigenic Index	160-163
6970.	64a-1	Antigenic Index	174-214
6971.	64a-1	Antigenic Index	225-232
6972.	64a-1	Antigenic Index	237-247
6973.	64a-1	Antigenic Index	252-258
6974.	64a-1	Antigenic Index	263-270
6975.	64a-1	Antigenic Index	297-299
6976.	64a-1	Antigenic Index	307-331
6977.	64a-1	Antigenic Index	344-362

6978.         64a-1         Antigenic Index         379-392           6979.         64a-1         Antigenic Index         402-409           6980.         64a-1         Antigenic Index         431-438           6981.         64a-1         Antigenic Index         442-451           6982.         64a-1         Antigenic Index         478-484           6983.         64a-1         Antigenic Index         486-500           6985.         64a-1         Antigenic Index         505-510           6985.         64a-1         Antigenic Index         505-510           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         576-580           6989.         64a-1         Antigenic Index         584-586           6991.         64a-1         Antigenic Index         68-33           6992.         64a-1         Antigenic Index         698-66           6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         673-692           6995.         64a-1         Antigenic In		· •		<del></del>
6980.         64a-1         Antigenic Index         442-451           6981.         64a-1         Antigenic Index         442-451           6982.         64a-1         Antigenic Index         456-464           6983.         64a-1         Antigenic Index         478-484           6984.         64a-1         Antigenic Index         505-510           6986.         64a-1         Antigenic Index         513-522           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         638-633           6991.         64a-1         Antigenic Index         637-646           6991.         64a-1         Antigenic Index         637-646           6992.         64a-1         Antigenic Index         636-666           6994.         64a-1         Antigenic Index         636-666           6995.         64a-1         Hydrophilicity         1-3           6996.         64a-1         Hydrophilicity	6978.	64a-1	Antigenic Index	379-392
6981.         64a-1         Antigenic Index         442-451           6982.         64a-1         Antigenic Index         456-464           6983.         64a-1         Antigenic Index         478-484           6984.         64a-1         Antigenic Index         505-510           6985.         64a-1         Antigenic Index         505-510           6986.         64a-1         Antigenic Index         513-522           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         584-586           6990.         64a-1         Antigenic Index         637-646           6991.         64a-1         Antigenic Index         637-646           6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         697-692           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         17-76           6999.         64a-1         Hydrophilicity <td>6979</td> <td>64a-1</td> <td>Antigenic Index</td> <td>402-409</td>	6979	64a-1	Antigenic Index	402-409
6982.         64a-1         Antigenic Index         456-464           6983.         64a-1         Antigenic Index         478-484           6984.         64a-1         Antigenic Index         486-500           6985.         64a-1         Antigenic Index         505-510           6986.         64a-1         Antigenic Index         513-522           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         608-633           6991.         64a-1         Antigenic Index         608-633           6992.         64a-1         Antigenic Index         656-666           6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         698-705           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         17-76           6999.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity <td>6980.</td> <td>64a-1</td> <td>Antigenic Index</td> <td>431-438</td>	6980.	64a-1	Antigenic Index	431-438
6982.         64a-1         Antigenic Index         456-464           6983.         64a-1         Antigenic Index         478-484           6984.         64a-1         Antigenic Index         486-500           6985.         64a-1         Antigenic Index         505-510           6986.         64a-1         Antigenic Index         513-522           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         608-633           6991.         64a-1         Antigenic Index         608-633           6992.         64a-1         Antigenic Index         656-666           6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         698-705           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         17-76           6999.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity <td>6981.</td> <td>64a-1</td> <td>Antigenic Index</td> <td>442-451</td>	6981.	64a-1	Antigenic Index	442-451
6983.         64a-1         Antigenic Index         478-484           6984.         64a-1         Antigenic Index         486-500           6985.         64a-1         Antigenic Index         505-510           6986.         64a-1         Antigenic Index         513-522           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         584-586           6991.         64a-1         Antigenic Index         637-646           6991.         64a-1         Antigenic Index         656-666           6991.         64a-1         Antigenic Index         656-666           6993.         64a-1         Antigenic Index         673-692           6995.         64a-1         Antigenic Index         698-705           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         71-76           6998.         64a-1         Hydrophilicity         171-76           6999.         64a-1         Hydrophilicity	6982.	64a-1		
6984.         64a-1         Antigenic Index         486-500           6985.         64a-1         Antigenic Index         505-510           6986.         64a-1         Antigenic Index         513-522           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         608-633           6991.         64a-1         Antigenic Index         608-633           6992.         64a-1         Antigenic Index         656-666           6993.         64a-1         Antigenic Index         673-692           6994.         64a-1         Antigenic Index         673-692           6995.         64a-1         Antigenic Index         698-705           6996.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         71-76           6998.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity			<del> </del>	
6985.         64a-1         Antigenic Index         505-510           6986.         64a-1         Antigenic Index         513-522           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         608-633           6991.         64a-1         Antigenic Index         637-646           6991.         64a-1         Antigenic Index         637-646           6992.         64a-1         Antigenic Index         656-666           6993.         64a-1         Antigenic Index         673-692           6995.         64a-1         Antigenic Index         698-705           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         71-76           6998.         64a-1         Hydrophilicity         71-76           6999.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity				
6986.         64a-1         Antigenic Index         513-522           6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         688-633           6991.         64a-1         Antigenic Index         637-646           6992.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         656-666           6995.         64a-1         Antigenic Index         656-666           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         59-66           6998.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         174-183           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         195-202           7003.         64a-1         Hydrophilicity		64a-1	<del>                                     </del>	
6987.         64a-1         Antigenic Index         526-533           6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         688-633           6991.         64a-1         Antigenic Index         637-646           6993.         64a-1         Antigenic Index         637-646           6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         698-705           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         59-66           6998.         64a-1         Hydrophilicity         71-76           6999.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         174-183           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity			<del></del>	
6988.         64a-1         Antigenic Index         537-562           6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         584-586           6991.         64a-1         Antigenic Index         608-633           6992.         64a-1         Antigenic Index         656-666           6993.         64a-1         Antigenic Index         673-692           6995.         64a-1         Antigenic Index         698-705           6996.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         71-76           6998.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         1151-156           7001.         64a-1         Hydrophilicity         185-189           7002.         64a-1         Hydrophilicity         191-193           7003.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         239-241           7008.         64a-1         Hydrophilicity				
6989.         64a-1         Antigenic Index         576-580           6990.         64a-1         Antigenic Index         584-586           6991.         64a-1         Antigenic Index         608-633           6992.         64a-1         Antigenic Index         637-646           6993.         64a-1         Antigenic Index         673-692           6994.         64a-1         Antigenic Index         698-705           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         59-66           6998.         64a-1         Hydrophilicity         71-76           6999.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         174-183           7001.         64a-1         Hydrophilicity         185-189           7003.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity         227-231           7006.         64a-1         Hydrophilicity         239-241           7008.         64a-1         Hydrophilicity		-		
6990.         64a-1         Antigenic Index         584-586           6991.         64a-1         Antigenic Index         608-633           6992.         64a-1         Antigenic Index         637-646           6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         698-705           6995.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         59-66           6998.         64a-1         Hydrophilicity         71-76           6999.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         174-183           7001.         64a-1         Hydrophilicity         185-189           7003.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity         227-231           7007.         64a-1         Hydrophilicity         239-241           7008.         64a-1         Hydrophilicity         239-241           7009.         64a-1         Hydrophilicity				
6991.         64a-1         Antigenic Index         608-633           6992.         64a-1         Antigenic Index         637-646           6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         673-692           6995.         64a-1         Hydrophilicity         1-3           6996.         64a-1         Hydrophilicity         59-66           6997.         64a-1         Hydrophilicity         71-76           6999.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         191-193           7003.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         239-241           7007.         64a-1         Hydrophilicity         239-241           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         <			<del>                                     </del>	
6992.         64a-1         Antigenic Index         637-646           6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         673-692           6995.         64a-1         Antigenic Index         698-705           6996.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         71-76           6998.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         185-189           7003.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         239-241           7007.         64a-1         Hydrophilicity         239-241           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity				<del> </del>
6993.         64a-1         Antigenic Index         656-666           6994.         64a-1         Antigenic Index         673-692           6995.         64a-1         Antigenic Index         698-705           6996.         64a-1         Hydrophilicity         1-3           6997.         64a-1         Hydrophilicity         59-66           6998.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         191-193           7003.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         227-231           7007.         64a-1         Hydrophilicity         239-241           7008.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         297-299           7012.         64a-1         Hydrophilicity				
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6996.         64a-1         Hydrophilicity         59-66           6997.         64a-1         Hydrophilicity         59-66           6998.         64a-1         Hydrophilicity         71-76           6999.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         191-193           7003.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         239-241           7007.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         307-313           7013.         64a-1         Hydrophilicity         316-319           7014.         64a-1         Hydrophilicity         322-331           7015.         64a-1         Hydrophilicity <td< td=""><td></td><td><del>' - "</del></td><td></td><td></td></td<>		<del>' - "</del>		
6997.         64a-1         Hydrophilicity         59-66           6998.         64a-1         Hydrophilicity         71-76           6999.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         239-241           7007.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         307-313           7012.         64a-1         Hydrophilicity         316-319           7014.         64a-1         Hydrophilicity         322-331           7015.         64a-1         Hydrophilicity         379-383           7017.         64a-1         Hydrophilicity         <				
6998.         64a-1         Hydrophilicity         71-76           6999.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         191-193           7003.         64a-1         Hydrophilicity         195-202           7004.         64a-1         Hydrophilicity         204-212           7005.         64a-1         Hydrophilicity         227-231           7006.         64a-1         Hydrophilicity         239-241           7007.         64a-1         Hydrophilicity         243-247           7008.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         307-313           7012.         64a-1         Hydrophilicity         316-319           7014.         64a-1         Hydrophilicity         322-331           7015.         64a-1         Hydrophilicity         379-383           7017.         64a-1         Hydrophilicity		<del></del>		
6999.         64a-1         Hydrophilicity         109-120           7000.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         191-193           7003.         64a-1         Hydrophilicity         195-202           7004.         64a-1         Hydrophilicity         204-212           7005.         64a-1         Hydrophilicity         227-231           7006.         64a-1         Hydrophilicity         239-241           7007.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         307-313           7012.         64a-1         Hydrophilicity         316-319           7014.         64a-1         Hydrophilicity         322-331           7015.         64a-1         Hydrophilicity         379-383           7017.         64a-1         Hydrophilicity         386-392           7018.         64a-1         Hydrophilicity				
7000.         64a-1         Hydrophilicity         151-156           7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         185-189           7003.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         204-212           7005.         64a-1         Hydrophilicity         227-231           7006.         64a-1         Hydrophilicity         239-241           7007.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         297-299           7012.         64a-1         Hydrophilicity         307-313           7013.         64a-1         Hydrophilicity         316-319           7014.         64a-1         Hydrophilicity         322-331           7015.         64a-1         Hydrophilicity         379-383           7017.         64a-1         Hydrophilicity         386-392           7018.         64a-1         Hydrophilicity			T	
7001.         64a-1         Hydrophilicity         174-183           7002.         64a-1         Hydrophilicity         185-189           7003.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         239-241           7007.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         297-299           7012.         64a-1         Hydrophilicity         307-313           7013.         64a-1         Hydrophilicity         316-319           7014.         64a-1         Hydrophilicity         322-331           7015.         64a-1         Hydrophilicity         379-383           7017.         64a-1         Hydrophilicity         386-392           7018.         64a-1         Hydrophilicity         431-438           7019.         64a-1         Hydrophilicity	7000.			
7003.         64a-1         Hydrophilicity         191-193           7004.         64a-1         Hydrophilicity         195-202           7005.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         227-231           7007.         64a-1         Hydrophilicity         239-241           7008.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         307-313           7012.         64a-1         Hydrophilicity         316-319           7013.         64a-1         Hydrophilicity         322-331           7015.         64a-1         Hydrophilicity         344-362           7016.         64a-1         Hydrophilicity         379-383           7017.         64a-1         Hydrophilicity         431-438           7019.         64a-1         Hydrophilicity         442-451           7020.         64a-1         Hydrophilicity         456-463	7001.	64a-1		
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7005.         64a-1         Hydrophilicity         204-212           7006.         64a-1         Hydrophilicity         227-231           7007.         64a-1         Hydrophilicity         239-241           7008.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         307-313           7012.         64a-1         Hydrophilicity         316-319           7013.         64a-1         Hydrophilicity         322-331           7014.         64a-1         Hydrophilicity         344-362           7016.         64a-1         Hydrophilicity         379-383           7017.         64a-1         Hydrophilicity         386-392           7018.         64a-1         Hydrophilicity         431-438           7019.         64a-1         Hydrophilicity         442-451           7020.         64a-1         Hydrophilicity         456-463	7003.	64a-1	Hydrophilicity	191-193
7006.         64a-1         Hydrophilicity         227-231           7007.         64a-1         Hydrophilicity         239-241           7008.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         307-313           7012.         64a-1         Hydrophilicity         316-319           7013.         64a-1         Hydrophilicity         322-331           7014.         64a-1         Hydrophilicity         344-362           7016.         64a-1         Hydrophilicity         386-392           7018.         64a-1         Hydrophilicity         431-438           7019.         64a-1         Hydrophilicity         442-451           7020.         64a-1         Hydrophilicity         456-463	7004.	64a-1	Hydrophilicity	195-202
7007.         64a-1         Hydrophilicity         239-241           7008.         64a-1         Hydrophilicity         243-247           7009.         64a-1         Hydrophilicity         252-258           7010.         64a-1         Hydrophilicity         263-268           7011.         64a-1         Hydrophilicity         297-299           7012.         64a-1         Hydrophilicity         307-313           7013.         64a-1         Hydrophilicity         316-319           7014.         64a-1         Hydrophilicity         322-331           7015.         64a-1         Hydrophilicity         344-362           7016.         64a-1         Hydrophilicity         379-383           7017.         64a-1         Hydrophilicity         386-392           7018.         64a-1         Hydrophilicity         431-438           7019.         64a-1         Hydrophilicity         442-451           7020.         64a-1         Hydrophilicity         456-463	7005.	64a-1	Hydrophilicity	204-212
7008.       64a-1       Hydrophilicity       243-247         7009.       64a-1       Hydrophilicity       252-258         7010.       64a-1       Hydrophilicity       263-268         7011.       64a-1       Hydrophilicity       297-299         7012.       64a-1       Hydrophilicity       307-313         7013.       64a-1       Hydrophilicity       316-319         7014.       64a-1       Hydrophilicity       322-331         7015.       64a-1       Hydrophilicity       344-362         7016.       64a-1       Hydrophilicity       379-383         7017.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7006	64a-1	Hydrophilicity	227-231
7009.       64a-1       Hydrophilicity       252-258         7010.       64a-1       Hydrophilicity       263-268         7011.       64a-1       Hydrophilicity       297-299         7012.       64a-1       Hydrophilicity       307-313         7013.       64a-1       Hydrophilicity       316-319         7014.       64a-1       Hydrophilicity       322-331         7015.       64a-1       Hydrophilicity       379-383         7016.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7007.	64a-1	Hydrophilicity	239-241
7009.       64a-1       Hydrophilicity       252-258         7010.       64a-1       Hydrophilicity       263-268         7011.       64a-1       Hydrophilicity       297-299         7012.       64a-1       Hydrophilicity       307-313         7013.       64a-1       Hydrophilicity       316-319         7014.       64a-1       Hydrophilicity       322-331         7015.       64a-1       Hydrophilicity       379-383         7016.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7008.	64a-1	Hydrophilicity	243-247
7011.       64a-1       Hydrophilicity       297-299         7012.       64a-1       Hydrophilicity       307-313         7013.       64a-1       Hydrophilicity       316-319         7014.       64a-1       Hydrophilicity       322-331         7015.       64a-1       Hydrophilicity       344-362         7016.       64a-1       Hydrophilicity       379-383         7017.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7009.	64a-1	Hydrophilicity	252-258
7012.       64a-1       Hydrophilicity       307-313         7013.       64a-1       Hydrophilicity       316-319         7014.       64a-1       Hydrophilicity       322-331         7015.       64a-1       Hydrophilicity       344-362         7016.       64a-1       Hydrophilicity       379-383         7017.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7010	64a-1	Hydrophilicity	263-268
7013.       64a-1       Hydrophilicity       316-319         7014.       64a-1       Hydrophilicity       322-331         7015.       64a-1       Hydrophilicity       344-362         7016.       64a-1       Hydrophilicity       379-383         7017.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7011	64a-1		297-299
7014.       64a-1       Hydrophilicity       322-331         7015.       64a-1       Hydrophilicity       344-362         7016.       64a-1       Hydrophilicity       379-383         7017.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7012.	64a-1	Hydrophilicity	307-313
7015.       64a-1       Hydrophilicity       344-362         7016.       64a-1       Hydrophilicity       379-383         7017.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7013.	64a-1	Hydrophilicity	316-319
7016.       64a-1       Hydrophilicity       379-383         7017.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7014.	64a-1	Hydrophilicity	322-331
7017.       64a-1       Hydrophilicity       386-392         7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7015.	64a-1	Hydrophilicity	344-362
7018.       64a-1       Hydrophilicity       431-438         7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7016.	64a-1	Hydrophilicity	379-383
7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463	7017	64a-1	Hydrophilicity	386-392
7019.       64a-1       Hydrophilicity       442-451         7020.       64a-1       Hydrophilicity       456-463		64a-1		431-438
7020. 64a-1 Hydrophilicity 456-463	7019.	64a-1	Hydrophilicity	442-451
	7020.	64a-1	Hydrophilicity	456-463
	7021.	64a-1	Hydrophilicity	478-484

7022.	64a-1	Hydrophilicity	486-497
7023.	64a-1	Hydrophilicity	505-510
7024.	64a-1	Hydrophilicity	515-522
7025.	64a-1	Hydrophilicity	527-533
7026.	64a-1	Hydrophilicity	537-545
7027.	64a-1	Hydrophilicity	547-561
7028.	64a-1	Hydrophilicity	584-586
7029.	64a-1	Hydrophilicity	608-633
7030.	64a-1	Hydrophilicity	639-646
7031.	64a-1	Hydrophilicity	657-663
7032.	64a-1	Hydrophilicity	673-680
7033.	64a-1	Hydrophilicity	685-692
7034.	64a-1	Hydrophilicity	700-703
7035.	65a-1	AMPHI	7-12
7036.	65a-1	АМРНІ	15-21
7037.	65a-1	AMPHI	73-95
7038.	65a-1	АМРНІ	103-115
7039.	65a-1	AMPHI	156-171
7040.	65a-1	AMPHI	179-184
7041.	65a-1	AMPHI	190-194
7042.	65a-1	AMPHI	196-211
7043.	65a-1	AMPHI	251-257
7044.	65a-1	AMPHI	264-274
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7209.         78a-1         AMPHI         143-148           7210.         78a-1         AMPHI         170-172           7211.         78a-1         AMPHI         211-226           7212.         78a-1         Antigenic Index         25-27           7213.         78a-1         Antigenic Index         30-35           7214.         78a-1         Antigenic Index         46-49           7215.         78a-1         Antigenic Index         79-81           7216.         78a-1         Antigenic Index         89-106           7217.         78a-1         Antigenic Index         115-118           7218.         78a-1         Antigenic Index         128-133           7219.         78a-1         Antigenic Index         157-160           7220.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         194-199           7222.         78a-1         Hydrophilicity         30-35           7223.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         128-133           7225.         78a-1         Hydrophilicity         128-133	7207.	78a-1	АМРНІ	131-133
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7211.         78a-1         AMPHI         211-226           7212.         78a-1         Antigenic Index         25-27           7213.         78a-1         Antigenic Index         30-35           7214.         78a-1         Antigenic Index         46-49           7215.         78a-1         Antigenic Index         79-81           7216.         78a-1         Antigenic Index         89-106           7217.         78a-1         Antigenic Index         115-118           7218.         78a-1         Antigenic Index         128-133           7219.         78a-1         Antigenic Index         128-133           7219.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         194-199           7221.         78a-1         Hydrophilicity         30-35           7222.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         128-133           7225.         78a-1         Hydrophilicity         128-133           7226.         78a-1         Hydrophilicity         205-227	7209.	78a-1	АМРНІ	143-148
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7213.         78a-1         Antigenic Index         30-35           7214.         78a-1         Antigenic Index         46-49           7215.         78a-1         Antigenic Index         79-81           7216.         78a-1         Antigenic Index         89-106           7217.         78a-1         Antigenic Index         115-118           7218.         78a-1         Antigenic Index         128-133           7219.         78a-1         Antigenic Index         157-160           7220.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         205-227           7222.         78a-1         Hydrophilicity         30-35           7222.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         89-103           7225.         78a-1         Hydrophilicity         128-133           7226.         78a-1         Hydrophilicity         128-133           7227.         78a-1         Hydrophilicity         194-198           7228.         79a-1         AMPHI         8-18           7229.         79a-1         AMPHI         28-32 </td <td>7211.</td> <td>78a-1</td> <td>АМРНІ</td> <td>211-226</td>	7211.	78a-1	АМРНІ	211-226
7214.         78a-1         Antigenic Index         46-49           7215.         78a-1         Antigenic Index         79-81           7216.         78a-1         Antigenic Index         89-106           7217.         78a-1         Antigenic Index         115-118           7218.         78a-1         Antigenic Index         128-133           7219.         78a-1         Antigenic Index         157-160           7220.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         205-227           7222.         78a-1         Hydrophilicity         30-35           7223.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         89-103           7225.         78a-1         Hydrophilicity         128-133           7226.         78a-1         Hydrophilicity         194-198           7227.         78a-1         Hydrophilicity         194-198           7227.         78a-1         Hydrophilicity         194-198           7228.         79a-1         AMPHI         8-18           7229.         79a-1         AMPHI         28-32     <	7212.	78a-1	Antigenic Index	25-27
7215.         78a-1         Antigenic Index         79-81           7216.         78a-1         Antigenic Index         89-106           7217.         78a-1         Antigenic Index         115-118           7218.         78a-1         Antigenic Index         128-133           7219.         78a-1         Antigenic Index         157-160           7220.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         205-227           7222.         78a-1         Hydrophilicity         30-35           7223.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         89-103           7225.         78a-1         Hydrophilicity         128-133           7226.         78a-1         Hydrophilicity         194-199           7227.         78a-1         Hydrophilicity         194-199           7228.         79a-1         AMPHI         8-18           7229.         79a-1         AMPHI         205-227           7228.         79a-1         AMPHI         28-32           7230.         79a-1         AMPHI         8-86	7213.	78a-1	Antigenic Index	30-35
7216.         78a-1         Antigenic Index         89-106           7217.         78a-1         Antigenic Index         115-118           7218.         78a-1         Antigenic Index         128-133           7219.         78a-1         Antigenic Index         157-160           7220.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         205-227           7222.         78a-1         Hydrophilicity         30-35           7223.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         89-103           7225.         78a-1         Hydrophilicity         128-133           7226.         78a-1         Hydrophilicity         194-198           7227.         78a-1         AMPHI         8-18           7229.         79a-1         AMPHI         8-18	7214.	78a-1	Antigenic Index	46-49
7217.         78a-1         Antigenic Index         115-118           7218.         78a-1         Antigenic Index         128-133           7219.         78a-1         Antigenic Index         157-160           7220.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         205-227           7222.         78a-1         Hydrophilicity         30-35           7223.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         89-103           7225.         78a-1         Hydrophilicity         128-133           7226.         78a-1         Hydrophilicity         194-198           7227.         78a-1         Hydrophilicity         194-198           7227.         78a-1         Hydrophilicity         194-198           7227.         78a-1         Hydrophilicity         194-198           7227.         78a-1         Hydrophilicity         194-198           7228.         79a-1         AMPHI         8-18           7229.         79a-1         AMPHI         8-18           7230.         79a-1         AMPHI         194-86	7215.	78a-1	Antigenic Index	79-81
7218.       78a-1       Antigenic Index       128-133         7219.       78a-1       Antigenic Index       157-160         7220.       78a-1       Antigenic Index       194-199         7221.       78a-1       Antigenic Index       205-227         7222.       78a-1       Hydrophilicity       30-35         7223.       78a-1       Hydrophilicity       79-81         7224.       78a-1       Hydrophilicity       89-103         7225.       78a-1       Hydrophilicity       128-133         7226.       78a-1       Hydrophilicity       194-198         7227.       78a-1       Hydrophilicity       194-198         7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       28-32         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79	7216.	78a-1	Antigenic Index	89-106
7219.         78a-1         Antigenic Index         157-160           7220.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         205-227           7222.         78a-1         Hydrophilicity         30-35           7223.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         89-103           7225.         78a-1         Hydrophilicity         128-133           7226.         78a-1         Hydrophilicity         194-198           7227.         78a-1         Hydrophilicity         205-227           7228.         79a-1         AMPHI         8-18           7229.         79a-1         AMPHI         28-32           7230.         79a-1         AMPHI         75-81           7231.         79a-1         AMPHI         84-86           7232.         79a-1         AMPHI         92-97           7233.         79a-1         ANPHI         113-117           7234.         79a-1         Antigenic Index         31-40           7236.         79a-1         Antigenic Index         45-52           7237.	7217.	78a-1	Antigenic Index	115-118
7220.         78a-1         Antigenic Index         194-199           7221.         78a-1         Antigenic Index         205-227           7222.         78a-1         Hydrophilicity         30-35           7223.         78a-1         Hydrophilicity         79-81           7224.         78a-1         Hydrophilicity         89-103           7225.         78a-1         Hydrophilicity         128-133           7226.         78a-1         Hydrophilicity         194-198           7227.         78a-1         Hydrophilicity         205-227           7228.         79a-1         AMPHI         8-18           7229.         79a-1         AMPHI         28-32           7230.         79a-1         AMPHI         75-81           7231.         79a-1         AMPHI         84-86           7232.         79a-1         AMPHI         92-97           7233.         79a-1         Antigenic Index         23-29           7235.         79a-1         Antigenic Index         31-40           7236.         79a-1         Antigenic Index         45-52           7237.         79a-1         Antigenic Index         72-87           7239.	7218.	78a-1	Antigenic Index	128-133
7221.       78a-1       Antigenic Index       205-227         7222.       78a-1       Hydrophilicity       30-35         7223.       78a-1       Hydrophilicity       79-81         7224.       78a-1       Hydrophilicity       89-103         7225.       78a-1       Hydrophilicity       128-133         7226.       78a-1       Hydrophilicity       194-198         7227.       78a-1       Hydrophilicity       205-227         7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       Antigenic Index       23-29         7234.       79a-1       Antigenic Index       31-40         7235.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1 </td <td>7219.</td> <td>78a-1</td> <td>Antigenic Index</td> <td>157-160</td>	7219.	78a-1	Antigenic Index	157-160
7222.       78a-1       Hydrophilicity       30-35         7223.       78a-1       Hydrophilicity       79-81         7224.       78a-1       Hydrophilicity       89-103         7225.       78a-1       Hydrophilicity       128-133         7226.       78a-1       Hydrophilicity       194-198         7227.       78a-1       Hydrophilicity       205-227         7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       AMPHI       113-117         7234.       79a-1       Antigenic Index       31-40         7235.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7220.	78a-1	Antigenic Index	194-199
7223.       78a-1       Hydrophilicity       79-81         7224.       78a-1       Hydrophilicity       89-103         7225.       78a-1       Hydrophilicity       128-133         7226.       78a-1       Hydrophilicity       194-198         7227.       78a-1       Hydrophilicity       205-227         7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       Antigenic Index       23-29         7234.       79a-1       Antigenic Index       31-40         7235.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7221.	78a-1	Antigenic Index	205-227
7224.       78a-1       Hydrophilicity       89-103         7225.       78a-1       Hydrophilicity       128-133         7226.       78a-1       Hydrophilicity       194-198         7227.       78a-1       Hydrophilicity       205-227         7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       Antigenic Index       23-29         7234.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7222.	78a-1	Hydrophilicity	30-35
7224.       78a-1       Hydrophilicity       128-133         7225.       78a-1       Hydrophilicity       194-198         7226.       78a-1       Hydrophilicity       194-198         7227.       78a-1       Hydrophilicity       205-227         7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       Antigenic Index       23-29         7234.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7223.	78a-1	Hydrophilicity	79-81
7226.       78a-1       Hydrophilicity       194-198         7227.       78a-1       Hydrophilicity       205-227         7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       Antigenic Index       23-29         7234.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7224.	78a-1	Hydrophilicity	89-103
7227.       78a-1       Hydrophilicity       205-227         7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       AMPHI       113-117         7234.       79a-1       Antigenic Index       23-29         7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7225.	78a-1	Hydrophilicity	128-133
7228.       79a-1       AMPHI       8-18         7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       AMPHI       113-117         7234.       79a-1       Antigenic Index       23-29         7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7226.	78a-1	Hydrophilicity	194-198
7229.       79a-1       AMPHI       28-32         7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       AMPHI       113-117         7234.       79a-1       Antigenic Index       23-29         7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7227.	78a-1	Hydrophilicity	205-227
7230.       79a-1       AMPHI       75-81         7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       AMPHI       113-117         7234.       79a-1       Antigenic Index       23-29         7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7228.	79a-1	АМРНІ	8-18
7231.       79a-1       AMPHI       84-86         7232.       79a-1       AMPHI       92-97         7233.       79a-1       AMPHI       113-117         7234.       79a-1       Antigenic Index       23-29         7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7229.	79a-1	АМРНІ	28-32
7232.       79a-1       AMPHI       92-97         7233.       79a-1       AMPHI       113-117         7234.       79a-1       Antigenic Index       23-29         7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7230.	79a-1	АМРНІ	75-81
7233.       79a-1       AMPHI       113-117         7234.       79a-1       Antigenic Index       23-29         7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7231.	79a-1	АМРНІ	84-86
7234.       79a-1       Antigenic Index       23-29         7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7232.	79a-1	AMPHI	92-97
7235.       79a-1       Antigenic Index       31-40         7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7233.	79a-1	AMPHI	113-117
7236.       79a-1       Antigenic Index       45-52         7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7234.	79a-1	Antigenic Index	23-29
7237.       79a-1       Antigenic Index       58-68         7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7235.	79a-1	Antigenic Index	31-40
7238.       79a-1       Antigenic Index       72-87         7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7236.	79a-1	Antigenic Index	45-52
7239.       79a-1       Antigenic Index       89-101         7240.       79a-1       Antigenic Index       108-121	7237.	79a-1	Antigenic Index	58-68
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7285.	81a-1	Antigenic Index	386-388

7286.	81a-1	Antigenic Index	390-399
7287.	81a-1	Antigenic Index	407-420
7288.	81a-1	Hydrophilicity	1-3
7289.	81a-1	Hydrophilicity	35-38
7290.	81a-1	Hydrophilicity	95-98
7291.	81a-1	Hydrophilicity	128-136
7292.	81a-1	Hydrophilicity	154-164
7293.	81a-1	Hydrophilicity	166-172
7294.	81a-1	Hydrophilicity	202-208
7295.	81a-1	Hydrophilicity	220-226
7296.	81a-1	Hydrophilicity	234-238
7297.	81a-1	Hydrophilicity	247-249
7298.	81a-1	Hydrophilicity	251-253
7299.	81a-1	Hydrophilicity	287-301
7300.	81a-1	Hydrophilicity	309-315
7301.	81a-1	Hydrophilicity	353-359
7302.	81a-1	Hydrophilicity	393-399
7303.	81a-1	Hydrophilicity	407-409
7304.	81a-1	Hydrophilicity	412-418
7305.	83a-1	AMPHI	14-22
7306.	83a-1	АМРНІ	68-70
7307.	83a-1	AMPHI	80-85
7308.	83a-1	АМРНІ	88-97
7309.	83a-1	АМРНІ	112-114
7310.	83a-1	AMPHI	116-118
7311.	83a-1	АМРНІ	121-133
7312.	83a-1	АМРНІ	135-139
7313.	83a-1	AMPHI	150-152
7314.	83a-1	АМРНІ	168-173
7315.	83a-1	AMPHI	177-180
7316.	83a-1	АМРНІ	196-202
7317.	83a-1	AMPHI	214-216
7318.	83a-1	АМРНІ	246-248
7319.	83a-1	АМРНІ	260-267
7320.	83a-1	AMPHI	270-275
7321.	83a-1	AMPHI_	277-282
7322.	83a-1	Antigenic Index	23-32
7323.	83a-1	Antigenic Index	34-36
7324.	83a-1	Antigenic Index	40-58
7325.	83a-1	Antigenic Index	65-79
7326.	83a-1	Antigenic Index	82-84
7327.	83a-1	Antigenic Index	86-97
7328.	83a-1	Antigenic Index	104-114
7329.	83a-1	Antigenic Index	132-145

7330.	83a-1	Antigenic Index	149-167
7331.	83a-1	Antigenic Index	184-193
7332.	83a-1	Antigenic Index	201-209
7333.	83a-1	Antigenic Index	215-222
7334.	83a-1	Antigenic Index	227-237
7335.	83a-1	Antigenic Index	239-243
7336.	83a-1	Antigenic Index	245-250
7337.	83a-1	Antigenic Index	259-261
7338.	83a-1	Antigenic Index	263-272
7339.	83a-1	Antigenic Index	279-313
7340.	83a-1	Hydrophilicity	25-32
7341.	83a-1	Hydrophilicity	34-36
7342.	83a-1	Hydrophilicity	40-58
7343.	83a-1	Hydrophilicity	66-70
7344.	83a-1	Hydrophilicity	82-84
7345.	83a-1	Hydrophilicity	90-96
7346.	83a-1	Hydrophilicity	107-114
7347.	83a-1	Hydrophilicity	132-143
7348.	83a-1	Hydrophilicity	151-155
7349.	83a-1	Hydrophilicity	161-166
7350.	83a-1	Hydrophilicity	187-190
7351.	83a-1	Hydrophilicity	203-208
7352.	83a-1	Hydrophilicity	215-222
7353.	83a-1	Hydrophilicity	227-237
7354.	83a-1	Hydrophilicity	263-272
7355.	83a-1	Hydrophilicity	285-313
7356.	84a-1	АМРНІ	12-20
7357.	84a-1	АМРНІ	39-41
7358.	84a-1	АМРНІ	43-46
7359.	84a-1	АМРНІ	58-67
7360.	84a-1	АМРНІ	72-83
7361.	84a-1	АМРНІ	102-106
7362.	84a-1	АМРНІ	108-110
7363.	84a-1	АМРНІ	114-117
7364.	84a-1	АМРНІ	132-142
7365.	84a-1	АМРНІ	158-160
7366.	84a-1	АМРНІ	165-170
7367.	84a-1	AMPHI	174-178
7368.	84a-1	АМРНІ	182-201
7369.	84a-1	AMPHI	227-230
7370.	84a-1	AMPHI	256-259
7371.	84a-1	AMPHI	281-301
7372.	84a-1	AMPHI	315-329
7373.	84a-1	AMPHI	347-350

7374.	84a-1	AMPHI	365-374
7375.	84a-1	АМРНІ	377-394
7376.	84a-1	Antigenic Index	9-18
7377.	84a-1	Antigenic Index	24-42
7378.	84a-1	Antigenic Index	45-48
7379.	84a-1	Antigenic Index	54-70
7380.	84a-1	Antigenic Index	76-85
7381.	84a-1	Antigenic Index	91-95
7382.	84a-1	Antigenic Index	97-109
7383.	84a-1	Antigenic Index	114-120
7384.	84a-1	Antigenic Index	128-137
7385.	84a-1	Antigenic Index	139-141
7386.	84a-1	Antigenic Index	148-154
7387.	84a-1	Antigenic Index	162-170
7388.	84a-1	Antigenic Index	180-187
7389.	84a-1	Antigenic Index	190-193
7390.	84a-1	Antigenic Index	198-205
7391.	84a-1	Antigenic Index	226-246
7392.	84a-1	Antigenic Index	251-265
7393.	84a-1	Antigenic Index	274-286
7394.	84a-1	Antigenic Index	288-291
7395.	84a-1	Antigenic Index	299-307
7396.	84a-1	Antigenic Index	311-359
7397.	84a-1	Antigenic Index	364-388
7398.	84a-1	Hydrophilicity	12-18
7399.	84a-1	Hydrophilicity	24-42
7400.	84a-1	Hydrophilicity	45-48
7401.	84a-1	Hydrophilicity	54-70
7402.	84a-1	Hydrophilicity	76-83
7403.	84a-1	Hydrophilicity	91-95
7404.	84a-1	Hydrophilicity	101-108
7405.	84a-1	Hydrophilicity	131-137
7406.	84a-1	Hydrophilicity	139-141
7407.	84a-1	Hydrophilicity	151-154
7408.	84a-1	Hydrophilicity	162-170
7409.	84a-1	Hydrophilicity	180-187
7410.	84a-1	Hydrophilicity	190-193
7411.	84a-1	Hydrophilicity	198-204
7412.	84a-1	Hydrophilicity	230-246
7413.	84a-1	Hydrophilicity	251-261
7414.	84a-1	Hydrophilicity	274-282
7415.	84a-1	Hydrophilicity	288-291
7416.	84a-1	Hydrophilicity	301-306
7417.	84a-1	Hydrophilicity	316-330

7418.	84a-1	Hydrophilicity	337-359
7419.	84a-1	Hydrophilicity	376-384
7420.	85a-1	AMPHI	6-13
7421.	85a-1	АМРНІ	17-24
7421.	85a-1	AMPHI	33-36
7423.	85a-1	AMPHI	38-41
7424.	85a-1	AMPHI	45-50
7425.	85a-1	AMPHI	55-61
7426.	85a-1	AMPHI	66-75
7427.	85a-1	AMPHI	84-95
7428.	85a-1	AMPHI	97-99
7429.	85a-1	AMPHI	123-126
7430.	85a-1	AMPHI	143-149
7431.	85a-1	AMPHI	160-165
7431.	85a-1	AMPHI	183-186
7433.	85a-1	AMPHI	201-205
7434.	85a-1	AMPHI	208-215
7435.	85a-1	AMPHI	234-236
7436.	85a-1	AMPHI	273-277
7437.	85a-1	AMPHI	303-311
7438.	85a-1	AMPHI	328-336
7439.	85a-1	AMPHI	344-351
7440.	85a-1	AMPHI	362-364
7441.	85a-1	AMPHI	374-377
7442.	85a-1	Antigenic Index	20-22
7443.	85a-1	Antigenic Index	24-31
7444.	85a-1	Antigenic Index	37-45
7445.	85a-1	Antigenic Index	47-57
7446.	85a-1	Antigenic Index	65-73
7447.	85a-1	Antigenic Index	78-87
7448.	85a-1	Antigenic Index	90-109
7449.	85a-1	Antigenic Index	121-129
7450.	85a-1	Antigenic Index	133-148
7451.	85a-1	Antigenic Index	156-159
7452.	85a-1	Antigenic Index	162-169
7453.	85a-1	Antigenic Index	173-179
7454.	85a-1	Antigenic Index	185-189
7455.	85a-1	Antigenic Index	196-201
7456.	85a-1	Antigenic Index	205-208
7457.	85a-1	Antigenic Index	225-240
7458.	85a-1	Antigenic Index	245-263
7459.	85a-1	Antigenic Index	269-279
7460.	85a-1	Antigenic Index	290-298
7461.	85a-1	Antigenic Index	302-313

7462.	85a-1	Antigenic Index	322-331
7463.	85a-1	Antigenic Index	335-369
7464.	85a-1	Antigenic Index	374-392
7465.	85a-1	Hydrophilicity	26-29
7466.	85a-1	Hydrophilicity	37-45
7467.	85a-1	Hydrophilicity	47-49
7468.	85a-1	Hydrophilicity	51-55
7469.	85a-1	Hydrophilicity	67-70
7470.	85a-1	Hydrophilicity	78-87
7471.	85a-1	Hydrophilicity	98-109
7472.	85a-1	Hydrophilicity	121-129
7473.	85a-1	Hydrophilicity	133-148
7474.	85a-1	Hydrophilicity	156-159
7475.	85a-1	Hydrophilicity	162-169
7476.	85a-1	Hydrophilicity	173-179
7477.	85a-1	Hydrophilicity	196-201
7478.	85a-1	Hydrophilicity	225-238
7479.	85a-1	Hydrophilicity	246-260
7480.	85a-1	Hydrophilicity	273-279
7480.	85a-1	Hydrophilicity	293-297
7481.	85a-1	Hydrophilicity	307-313
7482.	85a-1	Hydrophilicity	323-331
7484.	85a-1	Hydrophilicity	335-369
7485.	85a-1	Hydrophilicity	374-392
7486.	88a-1	AMPHI	13-21
7487.	88a-1	AMPHI	29-40
7487.	88a-1	AMPHI	52-70
7489.	88a-1	AMPHI	72-75
7490.	88a-1	AMPHI	102-110
7491.	88a-1	AMPHI	118-123
7492.	88a-1	AMPHI	132-136
7493.	88a-1	AMPHI	164-169
7494.	88a-1	AMPHI	268-275
7495.	88a-1	AMPHI	284-294
7496.	88a-1	AMPHI	312-314
7490. 7497.	88a-1	AMPHI	324-327
7498.	88a-1	AMPHI	337-340
7499.	88a-1	AMPHI	359-362
7500.	88a-1	AMPHI	366-371
7501.	88a-1	AMPHI	373-375
7501. 7502.	88a-1	AMPHI	377-397
7502. 7503.	88a-1	AMPHI	441-443
7503. 7504.	88a-1	AMPHI	513-515
7505.	88a-1	AMPHI	527-545

T506.				
T508.   88a-1   AMPHI   S84-590   S85-599   T510.   88a-1   AMPHI   S96-599   T510.   88a-1   AMPHI   G46-670   T511.   88a-1   Antigenic Index   I-11   T512.   88a-1   Antigenic Index   43-51   T513.   88a-1   Antigenic Index   G46-116   T514.   88a-1   Antigenic Index   G46-116   T514.   88a-1   Antigenic Index   I19-124   T515.   88a-1   Antigenic Index   I19-124   T515.   88a-1   Antigenic Index   I19-124   T515.   88a-1   Antigenic Index   I27-138   T516.   88a-1   Antigenic Index   I38-166   T517.   88a-1   Antigenic Index   I38-166   T518.   88a-1   Antigenic Index   I38-166   T519.   88a-1   Antigenic Index   I39-204   T520.   88a-1   Antigenic Index   209-215   T521.   88a-1   Antigenic Index   209-215   T521.   88a-1   Antigenic Index   242-236   T522.   88a-1   Antigenic Index   243-246   T523.   88a-1   Antigenic Index   252-254   T524.   88a-1   Antigenic Index   256-262   T525.   88a-1   Antigenic Index   267-294   T526.   88a-1   Antigenic Index   267-294   T527.   88a-1   Antigenic Index   267-299   T527.   88a-1   Antigenic Index   311-319   T528.   88a-1   Antigenic Index   311-319   T528.   88a-1   Antigenic Index   347-356   T531.   88a-1   Antigenic Index   347-356   T531.   88a-1   Antigenic Index   347-356   T531.   88a-1   Antigenic Index   342-344   T532.   88a-1   Antigenic Index   342-347   T534.   88a-1   Antigenic Index   424-427   T534.   88a-1   Antigenic Index   432-440   T535.   88a-1   Antigenic Index   432-440   T535.   88a-1   Antigenic Index   432-440   T536.   88a-1   Antigenic Index   432-440   T537.   88a-1   Antigenic Index   432-440   T536.   88a-1   Antigenic Index   540-560   T540.   88a-1   Antigenic Index   540-560   T	7506.	88a-1	АМРНІ	548-550
T509.   S8a-1	7507.	88a-1	АМРНІ	568-576
T510.   S8a-1	7508.	88a-1	АМРНІ	584-590
7511.   88a-1	7509.	88a-1	AMPHI	596-599
7512.         88a-1         Antigenic Index         43-51           7513.         88a-1         Antigenic Index         96-116           7514.         88a-1         Antigenic Index         119-124           7515.         88a-1         Antigenic Index         127-138           7516.         88a-1         Antigenic Index         142-154           7517.         88a-1         Antigenic Index         158-166           7518.         88a-1         Antigenic Index         199-204           7519.         88a-1         Antigenic Index         209-215           7520.         88a-1         Antigenic Index         209-215           7521.         88a-1         Antigenic Index         209-215           7521.         88a-1         Antigenic Index         224-236           7522.         88a-1         Antigenic Index         243-246           7523.         88a-1         Antigenic Index         252-254           7524.         88a-1         Antigenic Index         252-262           7525.         88a-1         Antigenic Index         267-294           7526.         88a-1         Antigenic Index         311-319           7527.         88a-1         Antigenic In	7510.	88a-1	АМРНІ	646-670
7513.   88a-1   Antigenic Index   119-124   7515.   88a-1   Antigenic Index   119-124   7515.   88a-1   Antigenic Index   127-138   7516.   88a-1   Antigenic Index   142-154   7517.   88a-1   Antigenic Index   142-154   7517.   88a-1   Antigenic Index   182-185   7518.   88a-1   Antigenic Index   182-185   7519.   88a-1   Antigenic Index   199-204   7520.   88a-1   Antigenic Index   209-215   7521.   88a-1   Antigenic Index   224-236   7522.   88a-1   Antigenic Index   232-246   7523.   88a-1   Antigenic Index   235-254   7524.   88a-1   Antigenic Index   256-262   7525.   88a-1   Antigenic Index   267-294   7526.   88a-1   Antigenic Index   267-294   7527.   88a-1   Antigenic Index   296-299   7527.   88a-1   Antigenic Index   311-319   7528.   88a-1   Antigenic Index   311-319   7528.   88a-1   Antigenic Index   324-334   7529.   88a-1   Antigenic Index   347-356   7530.   88a-1   Antigenic Index   363-396   7531.   88a-1   Antigenic Index   404-411   7532.   88a-1   Antigenic Index   404-411   7532.   88a-1   Antigenic Index   413-418   7533.   88a-1   Antigenic Index   424-427   7535.   88a-1   Antigenic Index   424-427   7536.   88a-1   Antigenic Index   424-427   7536.   88a-1   Antigenic Index   432-440   7535.   88a-1   Antigenic Index   432-440   7535.   88a-1   Antigenic Index   432-440   7535.   88a-1   Antigenic Index   454-455   7539.   88a-1   Antigenic Index   454-455   7539.   88a-1   Antigenic Index   454-455   7536.   88a-1   Antigenic Index   454-455   7536.   88a-1   Antigenic Index   454-455   7536.   88a-1   Antigenic Index   454-55   7536.   88a-1   Antigenic Index   463-488   7537.   88a-1   Antigenic Index   463-488   7537.   88a-1   Antigenic Index   463-488   7537.   88a-1   Antigenic Index   464-481   7534.   88a-1   Antigenic Index   540-560   7540.   88a-1   Antigenic Index   540-560   7545.   88a-1   Antigenic Index   540-560   7545.   88a-1   Antig	7511.	88a-1	Antigenic Index	1-11
7514.   88a-1	7512.	88a-1	Antigenic Index	43-51
Total	7513.	88a-1	Antigenic Index	96-116
7516.   88a-1	7514.	88a-1	Antigenic Index	119-124
7517.         88a-1         Antigenic Index         158-166           7518.         88a-1         Antigenic Index         182-185           7519.         88a-1         Antigenic Index         199-204           7520.         88a-1         Antigenic Index         209-215           7521.         88a-1         Antigenic Index         224-236           7522.         88a-1         Antigenic Index         243-246           7523.         88a-1         Antigenic Index         252-254           7524.         88a-1         Antigenic Index         256-262           7525.         88a-1         Antigenic Index         267-294           7526.         88a-1         Antigenic Index         311-319           7527.         88a-1         Antigenic Index         347-356           7528.         88a-1         Antigenic Index         347-356           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         347-356           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic	7515.	88a-1	Antigenic Index	127-138
7518.   88a-1	7516.	88a-1	Antigenic Index	142-154
7519.   88a-1	7517.	88a-1	Antigenic Index	158-166
7520.         88a-1         Antigenic Index         209-215           7521.         88a-1         Antigenic Index         224-236           7522.         88a-1         Antigenic Index         243-246           7523.         88a-1         Antigenic Index         252-254           7524.         88a-1         Antigenic Index         267-294           7525.         88a-1         Antigenic Index         296-299           7526.         88a-1         Antigenic Index         311-319           7528.         88a-1         Antigenic Index         324-334           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         404-411           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic	7518.	88a-1	Antigenic Index	182-185
7521.         88a-1         Antigenic Index         224-236           7522.         88a-1         Antigenic Index         243-246           7523.         88a-1         Antigenic Index         252-254           7524.         88a-1         Antigenic Index         256-262           7525.         88a-1         Antigenic Index         296-294           7526.         88a-1         Antigenic Index         311-319           7527.         88a-1         Antigenic Index         324-334           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         363-396           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         424-427           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic	7519.	88a-1	Antigenic Index	199-204
7522.         88a-1         Antigenic Index         243-246           7523.         88a-1         Antigenic Index         252-254           7524.         88a-1         Antigenic Index         256-262           7525.         88a-1         Antigenic Index         267-294           7526.         88a-1         Antigenic Index         296-299           7527.         88a-1         Antigenic Index         311-319           7528.         88a-1         Antigenic Index         347-356           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         363-396           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         424-427           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic	7520.	88a-1	Antigenic Index	209-215
7523.         88a-1         Antigenic Index         252-254           7524.         88a-1         Antigenic Index         256-262           7525.         88a-1         Antigenic Index         267-294           7526.         88a-1         Antigenic Index         296-299           7527.         88a-1         Antigenic Index         311-319           7528.         88a-1         Antigenic Index         324-334           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         363-396           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         424-427           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7540.         88a-1         Antigenic	7521.	88a-1	Antigenic Index	224-236
7524.         88a-1         Antigenic Index         256-262           7525.         88a-1         Antigenic Index         267-294           7526.         88a-1         Antigenic Index         296-299           7527.         88a-1         Antigenic Index         311-319           7528.         88a-1         Antigenic Index         324-334           7529.         88a-1         Antigenic Index         363-396           7530.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         540-560           7541.         88a-1         Antigenic	7522.	88a-1	Antigenic Index	243-246
7525.         88a-1         Antigenic Index         267-294           7526.         88a-1         Antigenic Index         296-299           7527.         88a-1         Antigenic Index         311-319           7528.         88a-1         Antigenic Index         324-334           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         404-411           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         574-577           7541.         88a-1         Antigenic	7523.	88a-1	Antigenic Index	252-254
7526.         88a-1         Antigenic Index         296-299           7527.         88a-1         Antigenic Index         311-319           7528.         88a-1         Antigenic Index         324-334           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         363-396           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         585-603           7542.         88a-1         Antigenic Index         631-637           7544.         88a-1         Antigenic	7524.	88a-1	Antigenic Index	256-262
7527.         88a-1         Antigenic Index         311-319           7528.         88a-1         Antigenic Index         324-334           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         404-411           7531.         88a-1         Antigenic Index         413-418           7532.         88a-1         Antigenic Index         424-427           7533.         88a-1         Antigenic Index         432-440           7534.         88a-1         Antigenic Index         448-455           7535.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         574-577           7541.         88a-1         Antigenic Index         623-628           7543.         88a-1         Antigenic Index         642-671           7545.         88a-1         Hydrophilicity         1-8           7546.         88a-1         Hydrophilicity	7525.	88a-1	Antigenic Index	267-294
7528.         88a-1         Antigenic Index         324-334           7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         363-396           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         585-603           7541.         88a-1         Antigenic Index         623-628           7543.         88a-1         Antigenic Index         631-637           7544.         88a-1         Antigenic Index         642-671           7545.         88a-1         Hydrophil	7526.	88a-1	Antigenic Index	296-299
7529.         88a-1         Antigenic Index         347-356           7530.         88a-1         Antigenic Index         363-396           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         504-508           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         585-603           7541.         88a-1         Antigenic Index         623-628           7543.         88a-1         Antigenic Index         642-671           7545.         88a-1         Antigenic Index         642-671           7545.         88a-1         Hydrophilicity         1-8           7546.         88a-1         Hydrophilicity	7527.	88a-1	Antigenic Index	311-319
7530.         88a-1         Antigenic Index         363-396           7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         504-508           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         585-603           7541.         88a-1         Antigenic Index         585-603           7542.         88a-1         Antigenic Index         623-628           7543.         88a-1         Antigenic Index         642-671           7545.         88a-1         Hydrophilicity         1-8           7546.         88a-1         Hydrophilicity         101-116           7548.         88a-1         Hydrophilicity<	7528.	88a-1	Antigenic Index	324-334
7531.         88a-1         Antigenic Index         404-411           7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         504-508           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         585-603           7541.         88a-1         Antigenic Index         623-628           7542.         88a-1         Antigenic Index         631-637           7544.         88a-1         Antigenic Index         642-671           7545.         88a-1         Hydrophilicity         1-8           7546.         88a-1         Hydrophilicity         101-116           7548.         88a-1         Hydrophilicity         101-116           7548.         88a-1         Hydrophilicity </td <td>7529.</td> <td>88a-1</td> <td>Antigenic Index</td> <td>347-356</td>	7529.	88a-1	Antigenic Index	347-356
7532.         88a-1         Antigenic Index         413-418           7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         574-577           7541.         88a-1         Antigenic Index         623-628           7542.         88a-1         Antigenic Index         631-637           7544.         88a-1         Antigenic Index         642-671           7545.         88a-1         Hydrophilicity         1-8           7546.         88a-1         Hydrophilicity         10-116           7548.         88a-1         Hydrophilicity         101-116           7548.         88a-1         Hydrophilicity         127-138	7530.	88a-1	Antigenic Index	363-396
7533.         88a-1         Antigenic Index         424-427           7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         574-577           7541.         88a-1         Antigenic Index         585-603           7542.         88a-1         Antigenic Index         623-628           7543.         88a-1         Antigenic Index         631-637           7544.         88a-1         Antigenic Index         642-671           7545.         88a-1         Hydrophilicity         1-8           7546.         88a-1         Hydrophilicity         101-116           7548.         88a-1         Hydrophilicity         127-138	7531.	88a-1	Antigenic Index	404-411
7534.         88a-1         Antigenic Index         432-440           7535.         88a-1         Antigenic Index         448-455           7536.         88a-1         Antigenic Index         463-488           7537.         88a-1         Antigenic Index         504-508           7538.         88a-1         Antigenic Index         516-528           7539.         88a-1         Antigenic Index         540-560           7540.         88a-1         Antigenic Index         574-577           7541.         88a-1         Antigenic Index         585-603           7542.         88a-1         Antigenic Index         623-628           7543.         88a-1         Antigenic Index         631-637           7544.         88a-1         Antigenic Index         642-671           7545.         88a-1         Hydrophilicity         1-8           7546.         88a-1         Hydrophilicity         46-48           7547.         88a-1         Hydrophilicity         101-116           7548.         88a-1         Hydrophilicity         127-138	7532.	88a-1	Antigenic Index	413-418
7535.       88a-1       Antigenic Index       448-455         7536.       88a-1       Antigenic Index       463-488         7537.       88a-1       Antigenic Index       504-508         7538.       88a-1       Antigenic Index       516-528         7539.       88a-1       Antigenic Index       540-560         7540.       88a-1       Antigenic Index       574-577         7541.       88a-1       Antigenic Index       585-603         7542.       88a-1       Antigenic Index       623-628         7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7533.	88a-1	Antigenic Index	424-427
7536.       88a-1       Antigenic Index       463-488         7537.       88a-1       Antigenic Index       504-508         7538.       88a-1       Antigenic Index       516-528         7539.       88a-1       Antigenic Index       540-560         7540.       88a-1       Antigenic Index       574-577         7541.       88a-1       Antigenic Index       585-603         7542.       88a-1       Antigenic Index       623-628         7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7534.	88a-1	Antigenic Index	432-440
7537.       88a-1       Antigenic Index       504-508         7538.       88a-1       Antigenic Index       516-528         7539.       88a-1       Antigenic Index       540-560         7540.       88a-1       Antigenic Index       574-577         7541.       88a-1       Antigenic Index       585-603         7542.       88a-1       Antigenic Index       623-628         7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7535.	88a-1	Antigenic Index	448-455
7538.       88a-1       Antigenic Index       516-528         7539.       88a-1       Antigenic Index       540-560         7540.       88a-1       Antigenic Index       574-577         7541.       88a-1       Antigenic Index       585-603         7542.       88a-1       Antigenic Index       623-628         7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7536.	88a-1	Antigenic Index	463-488
7539.       88a-1       Antigenic Index       540-560         7540.       88a-1       Antigenic Index       574-577         7541.       88a-1       Antigenic Index       585-603         7542.       88a-1       Antigenic Index       623-628         7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7537.	88a-1	Antigenic Index	504-508
7540.       88a-1       Antigenic Index       574-577         7541.       88a-1       Antigenic Index       585-603         7542.       88a-1       Antigenic Index       623-628         7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7538.	88a-1	Antigenic Index	516-528
7541.       88a-1       Antigenic Index       585-603         7542.       88a-1       Antigenic Index       623-628         7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7539.	88a-1	Antigenic Index	540-560
7542.       88a-1       Antigenic Index       623-628         7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7540.	88a-1		574-577
7543.       88a-1       Antigenic Index       631-637         7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7541.	88a-1		585-603
7544.       88a-1       Antigenic Index       642-671         7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7542.	88a-1	Antigenic Index	623-628
7545.       88a-1       Hydrophilicity       1-8         7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7543.	88a-1	Antigenic Index	631-637
7546.       88a-1       Hydrophilicity       46-48         7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7544.	88a-1	Antigenic Index	642-671
7547.       88a-1       Hydrophilicity       101-116         7548.       88a-1       Hydrophilicity       127-138	7545.	88a-1	Hydrophilicity	1-8
7548. 88a-1 Hydrophilicity 127-138	7546.	88a-1	Hydrophilicity	46-48
	7547.	88a-1	Hydrophilicity	101-116
7549.   88a-1   Hydrophilicity   146-153	7548.	88a-1	Hydrophilicity	127-138
	7549.	88a-1	Hydrophilicity	146-153

7550.         88a-1         Hydrophilicity         199-201           7551.         88a-1         Hydrophilicity         199-201           7552.         88a-1         Hydrophilicity         209-215           7553.         88a-1         Hydrophilicity         228-236           7554.         88a-1         Hydrophilicity         252-254           7555.         88a-1         Hydrophilicity         270-294           7557.         88a-1         Hydrophilicity         313-316           7558.         88a-1         Hydrophilicity         327-334           7559.         88a-1         Hydrophilicity         347-356           7550.         88a-1         Hydrophilicity         347-356           7559.         88a-1         Hydrophilicity         363-378           7560.         88a-1         Hydrophilicity         380-395           7562.         88a-1         Hydrophilicity         404-411           7563.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         517-526           7567.         88a-1         Hydrophilicity	
7552.         88a-1         Hydrophilicity         209-215           7553.         88a-1         Hydrophilicity         228-236           7554.         88a-1         Hydrophilicity         252-254           7555.         88a-1         Hydrophilicity         270-294           7556.         88a-1         Hydrophilicity         313-316           7557.         88a-1         Hydrophilicity         327-334           7558.         88a-1         Hydrophilicity         347-356           7560.         88a-1         Hydrophilicity         363-378           7561.         88a-1         Hydrophilicity         380-395           7562.         88a-1         Hydrophilicity         404-411           7563.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         517-526           7566.         88a-1         Hydrophilicity         517-526           7567.         88a-1         Hydrophilicity         540-546           7568.         88a-1         Hydrophilicity         553-560           7569.         88a-1         Hydrophilicity	
7553.         88a-1         Hydrophilicity         228-236           7554.         88a-1         Hydrophilicity         252-254           7555.         88a-1         Hydrophilicity         270-294           7556.         88a-1         Hydrophilicity         313-316           7557.         88a-1         Hydrophilicity         327-334           7558.         88a-1         Hydrophilicity         347-356           7559.         88a-1         Hydrophilicity         363-378           7560.         88a-1         Hydrophilicity         380-395           7561.         88a-1         Hydrophilicity         404-411           7562.         88a-1         Hydrophilicity         434-438           7563.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         463-488           7566.         88a-1         Hydrophilicity         517-526           7567.         88a-1         Hydrophilicity         540-546           7569.         88a-1         Hydrophilicity         553-560           7570.         88a-1         Hydrophilicity         599-601           7571.         88a-1         Hydrophilicity	
7554.         88a-1         Hydrophilicity         252-254           7555.         88a-1         Hydrophilicity         256-262           7556.         88a-1         Hydrophilicity         270-294           7557.         88a-1         Hydrophilicity         313-316           7558.         88a-1         Hydrophilicity         327-334           7559.         88a-1         Hydrophilicity         347-356           7560.         88a-1         Hydrophilicity         363-378           7561.         88a-1         Hydrophilicity         380-395           7562.         88a-1         Hydrophilicity         404-411           7563.         88a-1         Hydrophilicity         434-438           7564.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         463-488           7566.         88a-1         Hydrophilicity         517-526           7567.         88a-1         Hydrophilicity         540-546           7569.         88a-1         Hydrophilicity         586-594           7570.         88a-1         Hydrophilicity         599-601           7571.         88a-1         Hydrophilicity	
7555.         88a-1         Hydrophilicity         256-262           7556.         88a-1         Hydrophilicity         270-294           7557.         88a-1         Hydrophilicity         313-316           7558.         88a-1         Hydrophilicity         327-334           7559.         88a-1         Hydrophilicity         347-356           7560.         88a-1         Hydrophilicity         363-378           7561.         88a-1         Hydrophilicity         404-411           7563.         88a-1         Hydrophilicity         434-438           7564.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         463-488           7566.         88a-1         Hydrophilicity         517-526           7567.         88a-1         Hydrophilicity         540-546           7568.         88a-1         Hydrophilicity         553-560           7569.         88a-1         Hydrophilicity         586-594           7570.         88a-1         Hydrophilicity         599-601           7571.         88a-1         Hydrophilicity         633-637           7574.         89a-1         AMPHI         34	
7556.         88a-1         Hydrophilicity         270-294           7557.         88a-1         Hydrophilicity         313-316           7558.         88a-1         Hydrophilicity         327-334           7559.         88a-1         Hydrophilicity         347-356           7560.         88a-1         Hydrophilicity         363-378           7561.         88a-1         Hydrophilicity         380-395           7562.         88a-1         Hydrophilicity         404-411           7563.         88a-1         Hydrophilicity         434-438           7564.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         463-488           7566.         88a-1         Hydrophilicity         517-526           7567.         88a-1         Hydrophilicity         540-546           7568.         88a-1         Hydrophilicity         553-560           7569.         88a-1         Hydrophilicity         586-594           7570.         88a-1         Hydrophilicity         599-601           7571.         88a-1         Hydrophilicity         623-628           7572.         88a-1         Hydrophilicity	
7557.         88a-1         Hydrophilicity         313-316           7558.         88a-1         Hydrophilicity         327-334           7559.         88a-1         Hydrophilicity         347-356           7560.         88a-1         Hydrophilicity         363-378           7561.         88a-1         Hydrophilicity         380-395           7562.         88a-1         Hydrophilicity         404-411           7563.         88a-1         Hydrophilicity         434-438           7564.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         517-526           7566.         88a-1         Hydrophilicity         540-546           7568.         88a-1         Hydrophilicity         553-560           7569.         88a-1         Hydrophilicity         586-594           7570.         88a-1         Hydrophilicity         599-601           7571.         88a-1         Hydrophilicity         623-628           7572.         88a-1         Hydrophilicity         643-671           7574.         89a-1         AMPHI         34-48           7575.         89a-1         AMPHI         108-114	
7558.         88a-1         Hydrophilicity         327-334           7559.         88a-1         Hydrophilicity         347-356           7560.         88a-1         Hydrophilicity         363-378           7561.         88a-1         Hydrophilicity         380-395           7562.         88a-1         Hydrophilicity         404-411           7563.         88a-1         Hydrophilicity         434-438           7564.         88a-1         Hydrophilicity         463-488           7565.         88a-1         Hydrophilicity         517-526           7567.         88a-1         Hydrophilicity         540-546           7568.         88a-1         Hydrophilicity         553-560           7569.         88a-1         Hydrophilicity         586-594           7570.         88a-1         Hydrophilicity         599-601           7571.         88a-1         Hydrophilicity         623-628           7572.         88a-1         Hydrophilicity         643-671           7574.         89a-1         AMPHI         34-48           7575.         89a-1         AMPHI         108-114           7577.         89a-1         AMPHI         123-130	
7559.       88a-1       Hydrophilicity       347-356         7560.       88a-1       Hydrophilicity       363-378         7561.       88a-1       Hydrophilicity       380-395         7562.       88a-1       Hydrophilicity       404-411         7563.       88a-1       Hydrophilicity       434-438         7564.       88a-1       Hydrophilicity       463-488         7565.       88a-1       Hydrophilicity       517-526         7567.       88a-1       Hydrophilicity       540-546         7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       108-114         7578.       89a-1       AMPHI       132-139	
7560.         88a-1         Hydrophilicity         363-378           7561.         88a-1         Hydrophilicity         380-395           7562.         88a-1         Hydrophilicity         404-411           7563.         88a-1         Hydrophilicity         434-438           7564.         88a-1         Hydrophilicity         448-455           7565.         88a-1         Hydrophilicity         517-526           7566.         88a-1         Hydrophilicity         540-546           7568.         88a-1         Hydrophilicity         553-560           7569.         88a-1         Hydrophilicity         586-594           7570.         88a-1         Hydrophilicity         599-601           7571.         88a-1         Hydrophilicity         623-628           7572.         88a-1         Hydrophilicity         633-637           7573.         88a-1         Hydrophilicity         643-671           7574.         89a-1         AMPHI         34-48           7575.         89a-1         AMPHI         108-114           7577.         89a-1         AMPHI         123-130           7578.         89a-1         AMPHI         132-139	
7561.       88a-1       Hydrophilicity       380-395         7562.       88a-1       Hydrophilicity       404-411         7563.       88a-1       Hydrophilicity       434-438         7564.       88a-1       Hydrophilicity       448-455         7565.       88a-1       Hydrophilicity       517-526         7566.       88a-1       Hydrophilicity       540-546         7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       102-130         7578.       89a-1       AMPHI       132-130	
7562.       88a-1       Hydrophilicity       404-411         7563.       88a-1       Hydrophilicity       434-438         7564.       88a-1       Hydrophilicity       448-455         7565.       88a-1       Hydrophilicity       463-488         7566.       88a-1       Hydrophilicity       517-526         7567.       88a-1       Hydrophilicity       540-546         7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7563.       88a-1       Hydrophilicity       434-438         7564.       88a-1       Hydrophilicity       448-455         7565.       88a-1       Hydrophilicity       517-526         7566.       88a-1       Hydrophilicity       540-546         7567.       88a-1       Hydrophilicity       553-560         7568.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7564.       88a-1       Hydrophilicity       448-455         7565.       88a-1       Hydrophilicity       463-488         7566.       88a-1       Hydrophilicity       517-526         7567.       88a-1       Hydrophilicity       540-546         7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       599-601         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7565.       88a-1       Hydrophilicity       463-488         7566.       88a-1       Hydrophilicity       517-526         7567.       88a-1       Hydrophilicity       540-546         7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       108-114         7576.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7565.       88a-1       Hydrophilicity       463-488         7566.       88a-1       Hydrophilicity       517-526         7567.       88a-1       Hydrophilicity       540-546         7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7567.       88a-1       Hydrophilicity       540-546         7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       108-114         7576.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7568.       88a-1       Hydrophilicity       553-560         7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7569.       88a-1       Hydrophilicity       586-594         7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7570.       88a-1       Hydrophilicity       599-601         7571.       88a-1       Hydrophilicity       623-628         7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7572.       88a-1       Hydrophilicity       633-637         7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7573.       88a-1       Hydrophilicity       643-671         7574.       89a-1       AMPHI       34-48         7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7575.       89a-1       AMPHI       50-58         7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
7576.       89a-1       AMPHI       108-114         7577.       89a-1       AMPHI       123-130         7578.       89a-1       AMPHI       132-139	
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7619.	91a-1	Hydrophilicity	31-35
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7624.	91a-1	Hydrophilicity	121-128
7625.	91a-1	Hydrophilicity	130-132
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7637	97a-1	Antigenic Index	89-96

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7737.	100a-1	Hydrophilicity	373-387
7738.	100a-1	Hydrophilicity	394-405
7739.	101a-1	AMPHI	10-12
7740.	101a-1	AMPHI	31-36
7741.	101a-1	AMPHI	47-53
7742.	101a-1	AMPHI	55-58
7743.	101a-1	AMPHI	68-78
7744.	101a-1	АМРНІ	94-103
7745.	101a-1	AMPHI	110-117
7746.	101a-1	АМРНІ	127-133
7747.	101a-1	АМРНІ	144-154
7748.	101a-1	AMPHI	237-244
7749.	101a-1	AMPHI	297-304
7750.	101a-1	AMPHI	316-318
7751.	101a-1	АМРНІ	331-334
7752.	101a-1	Antigenic Index	6-9
7753.	101a-1	Antigenic Index	38-45
7754.	101a-1	Antigenic Index	78-87
7755.	101a-1	Antigenic Index	125-133
7756.	101a-1	Antigenic Index	135-143
7757.	101a-1	Antigenic Index	147-157
7758.	101a-1	Antigenic Index	165-171
7759.	101a-1	Antigenic Index	176-186
7760.	101a-1	Antigenic Index	189-224
7761.	101a-1	Antigenic Index	236-251
7762.	101a-1	Antigenic Index	257-264
7763.	101a-1	Antigenic Index	290-298
7764.	101a-1	Antigenic Index	311-313
7765.	101a-1	Antigenic Index	320-325
7766.	101a-1	Antigenic Index	350-356
7767.	101a-1	Antigenic Index	362-371
7768.	101a-1	Hydrophilicity	6-9
7769.	101a-1	Hydrophilicity	38-45
	10141	Tigaropinion	

	101a-1	Hydrophilicity	79-85
7771.	101a-1	Hydrophilicity	125-133
7772.	101a-1	Hydrophilicity	135-143
7773.	101a-1	Hydrophilicity	152-157
7774.	101a-1	Hydrophilicity	165-171
7775.	101a-1	Hydrophilicity	176-185
7776.	101a-1	Hydrophilicity	189-195
7777.	101a-1	Hydrophilicity	199-207
7778.	101a-1	Hydrophilicity	215-222
7779.	101a-1	Hydrophilicity	239-242
7780.	101a-1	Hydrophilicity	244-251
7781.	101a-1	Hydrophilicity	293-296
7782.	101a-1	Hydrophilicity	320-325
7783.	101a-1	Hydrophilicity	350-353
7784.	101a-1	Hydrophilicity	368-371
7785.	102a-1	AMPHI	6-14
7786.	102a-1	AMPHI	17-21
7787.	102a-1	AMPHI	33-36
7788.	102a-1	AMPHI	44-46
7789.	102a-1	AMPHI	54-61
7790.	102a-1	AMPHI	101-125
7791.	102a-1	Antigenic Index	35-45
7792.	102a-1	Antigenic Index	47-49
7793.	102a-1	Antigenic Index	58-61
7794.	102a-1	Antigenic Index	79-82
7795.	102a-1	Antigenic Index	106-118
7796.	102a-1	Hydrophilicity	35-45
7797.	102a-1	Hydrophilicity	106-109
7798.	103a-1	AMPHI	10-13
7799.	103a-1	AMPHI	17-29
7800.	103a-1	AMPHI	38-40
7801.	103a-1	AMPHI	53-58
7802.	103a-1	AMPHI	62-69
7803.	103a-1	AMPHI	81-83
7804.	103a-1	AMPHI	99-125
7805.	103a-1	AMPHI	131-137
7806.	103a-1	AMPHI	176-186
	103a-1	AMPHI	196-205
	103a-1	Antigenic Index	1-4
7809.	103a-1	Antigenic Index	18-20
7810.	103a-1	Antigenic Index	26-28
7811.	103a-1	Antigenic Index	37-41
7812.	103a-1	Antigenic Index	50-56
7813.	103a-1	Antigenic Index	74-81

7814.	103a-1	Antigenic Index	107-116
7814.			
	103a-1	Antigenic Index	128-132
7816.	103a-1	Antigenic Index	146-148
7817.	103a-1	Antigenic Index	161-165
7818.	103a-1	Antigenic Index	196-200
7819.	103a-1	Hydrophilicity	75-79
7820.	103a-1	Hydrophilicity	107-113
7821.	104a-1	AMPHI	15-19
7822.	104a-1	AMPHI	29-37
7823.	104a-1	AMPHI	63-67
7824.	104a-1	AMPHI	93-96
7825.	104a-1	АМРНІ	147-156
7826.	104a-1	AMPHI	206-215
7827.	104a-1	AMPHI	232-234
7828.	104a-1	AMPHI	236-249
7829.	104a-1	АМРНІ	251-267
7830.	104a-1	АМРНІ	275-277
7831.	104a-1	Antigenic Index	1-6
7832.	104a-1	Antigenic Index	58-71
7833.	104a-1	Antigenic Index	98-100
7834.	104a-1	Antigenic Index	120-126
7835.	104a-1	Antigenic Index	145-152
7836.	104a-1	Antigenic Index	211-216
7837.	104a-1	Antigenic Index	234-239
7838.	104a-1	Antigenic Index	243-247
7839.	104a-1	Antigenic Index	275-283
7840.	104a-1	Antigenic Index	299-307
7841.	104a-1	Hydrophilicity	1-5
7842.	104a-1	Hydrophilicity	60-66
7843.	104a-1	Hydrophilicity	120-126
7844.	104a-1	Hydrophilicity	146-149
7845.	104a-1	Hydrophilicity	243-247
7846.	104a-1	Hydrophilicity	302-307
7847.	105a-1	АМРНІ	6-9
7848.	105a-1	AMPHI	13-15
7849.	105a-1	АМРНІ	18-21
7850.	105a-1	AMPHI	29-31
7851.	105a-1	AMPHI	33-36
7852.	105a-1	АМРНІ	46-48
7853.	105a-1	AMPHI	50-60
7854.	105a-1	AMPHI	74-90
7855.	105a-1	AMPHI	97-100
7856.	105a-1	AMPHI	105-107
7857.	105a-1	AMPHI	123-128

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7858.	105a-1	AMPHI	152-167
7859.	105a-1	AMPHI	180-183
7860.	105a-1	AMPHI	199-213
7861.	105a-1	АМРНІ	239-243
7862.	105a-1	АМРНІ	245-247
7863.	105a-1	АМРНІ	249-255
7864.	105a-1	АМРНІ	267-269
7865.	105a-1	Antigenic Index	5-15
7866.	105a-1	Antigenic Index	23-32
7867	105a-1	Antigenic Index	40-43
7868.	105a-1	Antigenic Index	45-68
7869.	105a-1	Antigenic Index	71-84
7870.	105a-1	Antigenic Index	88-90
7871.	105a-1	Antigenic Index	97-112
7872.	105a-1	Antigenic Index	117-121
7873.	105a-1	Antigenic Index	132-143
7874.	105a-1	Antigenic Index	148-193
7875.	105a-1	Antigenic Index	204-214
7876.	105a-1	Antigenic Index	229-246
7877.	105a-1	Hydrophilicity	5-15
7878.	105a-1	Hydrophilicity	48-66
7879.	105a-1	Hydrophilicity	74-84
7880.	105a-1	Hydrophilicity	88-90
7881.	105a-1	Hydrophilicity	98-110
7882.	105a-1	Hydrophilicity	117-121
7883.	105a-1	Hydrophilicity	137-141
7884.	105a-1	Hydrophilicity	149-163
7885.	105a-1	Hydrophilicity	170-176
7886.	105a-1	Hydrophilicity	178-193
7887.	105a-1	Hydrophilicity	208-210
7888.	105a-1	Hydrophilicity	232-246
7889.	106a-1	АМРНІ	6-16
7890.	106a-1	AMPHI	23-28
7891.	106a-1	АМРНІ	42-50
7892.	106a-1	АМРНІ	55-65
7893.	106a-1	AMPHI	122-131
7894.	106a-1	АМРНІ	139-146
7895.	106a-1	АМРНІ	169-176
7896.	106a-1	Antigenic Index	9-11
7897.	106a-1	Antigenic Index	27-62
7898.	106a-1	Antigenic Index	64-68
7899.	106a-1	Antigenic Index	95-103
7900.	106a-1	Antigenic Index	109-116
7901.	106a-1	Antigenic Index	123-132
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1902.   106a-1   Antigenic Index   145-161				
7904.         106a-1         Antigenic Index         197-199           7905.         106a-1         Antigenic Index         197-199           7906.         106a-1         Hydrophilicity         27-43           7907.         106a-1         Hydrophilicity         51-59           7908.         106a-1         Hydrophilicity         64-67           7909.         106a-1         Hydrophilicity         112-116           7910.         106a-1         Hydrophilicity         126-132           7911.         106a-1         Hydrophilicity         148-161           7912.         106a-1         Hydrophilicity         169-172           7913.         106a-1         Hydrophilicity         169-172           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7917.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         38-76           <	7902.	106a-1	Antigenic Index	145-161
7905.         106a-1         Antigenic Index         197-199           7906.         106a-1         Hydrophilicity         27-43           7907.         106a-1         Hydrophilicity         51-59           7908.         106a-1         Hydrophilicity         64-67           7909.         106a-1         Hydrophilicity         15-103           7910.         106a-1         Hydrophilicity         126-132           7911.         106a-1         Hydrophilicity         148-161           7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         148-161           7914.         106a-1         Hydrophilicity         148-161           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         78-80           7921.         111ng-1         AMPHI         78-80 <td< td=""><td>7903.</td><td>106a-1</td><td>Antigenic Index</td><td>166-175</td></td<>	7903.	106a-1	Antigenic Index	166-175
7906.         106a-1         Hydrophilicity         27-43           7907.         106a-1         Hydrophilicity         51-59           7908.         106a-1         Hydrophilicity         64-67           7909.         106a-1         Hydrophilicity         112-116           7910.         106a-1         Hydrophilicity         112-116           7911.         106a-1         Hydrophilicity         148-161           7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         188-190           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.	7904.	106a-1	Antigenic Index	180-192
7907.         106a-1         Hydrophilicity         51-59           7908.         106a-1         Hydrophilicity         64-67           7909.         106a-1         Hydrophilicity         95-103           7910.         106a-1         Hydrophilicity         112-116           7911.         106a-1         Hydrophilicity         126-132           7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         188-190           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         11ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         48-50           7918.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         48-50           7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         106-108           7925.         111n	7905.	106a-1	Antigenic Index	197-199
7908.         106a-1         Hydrophilicity         64-67           7909.         106a-1         Hydrophilicity         95-103           7910.         106a-1         Hydrophilicity         112-116           7911.         106a-1         Hydrophilicity         126-132           7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         159-172           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         48-50           7918.         111ng-1         AMPHI         48-50           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         78-80           7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         106-108           7923.         111ng-1         AMPHI         106-108           7925.         111ng-1 </td <td>7906.</td> <td>106a-1</td> <td>Hydrophilicity</td> <td>27-43</td>	7906.	106a-1	Hydrophilicity	27-43
7909.         106a-1         Hydrophilicity         95-103           7910.         106a-1         Hydrophilicity         112-116           7911.         106a-1         Hydrophilicity         126-132           7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         188-190           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         87-91           7921.         111ng-1         AMPHI         87-91           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         142-144           7929.         111ng-1	7907.	106a-1	Hydrophilicity	51-59
7910.         106a-1         Hydrophilicity         112-116           7911.         106a-1         Hydrophilicity         126-132           7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         188-190           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         48-50           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         78-80           7921.         111ng-1         AMPHI         87-91           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         115-119           7925.         111ng-1         AMPHI         112-144           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1 <td< td=""><td>7908.</td><td>106a-1</td><td>Hydrophilicity</td><td>64-67</td></td<>	7908.	106a-1	Hydrophilicity	64-67
7910.         106a-1         Hydrophilicity         112-116           7911.         106a-1         Hydrophilicity         126-132           7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         188-190           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         48-50           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         78-80           7921.         111ng-1         AMPHI         87-91           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         115-119           7925.         111ng-1         AMPHI         112-144           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1 <td< td=""><td>7909.</td><td>106a-1</td><td>Hydrophilicity</td><td>95-103</td></td<>	7909.	106a-1	Hydrophilicity	95-103
7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         169-172           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         87-91           7921.         111ng-1         AMPHI         87-91           7922.         111ng-1         AMPHI         96-99           7923.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI	7910.	106a-1	1 "	112-116
7912.         106a-1         Hydrophilicity         148-161           7913.         106a-1         Hydrophilicity         169-172           7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         87-91           7921.         111ng-1         AMPHI         87-91           7922.         111ng-1         AMPHI         96-99           7923.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI	7911.		Hydrophilicity	126-132
7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         87-91           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         1128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213	7912.		Hydrophilicity	148-161
7914.         106a-1         Hydrophilicity         188-190           7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         87-91           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         1128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213	7913.			
7915.         111ng-1         AMPHI         8-12           7916.         111ng-1         AMPHI         24-26           7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         87-91           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213	7914.		Hydrophilicity	188-190
7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276 <td></td> <td></td> <td></td> <td>8-12</td>				8-12
7917.         111ng-1         AMPHI         28-32           7918.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         122-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276 <td>7916.</td> <td>111ng-1</td> <td>АМРНІ</td> <td>24-26</td>	7916.	111ng-1	АМРНІ	24-26
7918.         111ng-1         AMPHI         41-43           7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276 </td <td></td> <td></td> <td>AMPHI</td> <td>28-32</td>			AMPHI	28-32
7919.         111ng-1         AMPHI         48-50           7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         186-191           7931.         11lng-1         AMPHI         195-202           7933.         11lng-1         AMPHI         207-213           7934.         11lng-1         AMPHI         268-276           7935.         11lng-1         AMPHI         268-276           7937.         11lng-1         AMPHI         303-307           7938.         11lng-1         Antigenic Index         <	7918.			
7920.         111ng-1         AMPHI         58-76           7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         186-191           7931.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index				
7921.         111ng-1         AMPHI         78-80           7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index <td></td> <td></td> <td></td> <td>58-76</td>				58-76
7922.         111ng-1         AMPHI         87-91           7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic				78-80
7923.         111ng-1         AMPHI         96-99           7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7938.         111ng-1         AMPHI         303-307           7939.         111ng-1         Antigenic Index         1-10           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigen				<del></del>
7924.         111ng-1         AMPHI         106-108           7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         37-42           7940.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         81-105           7943.         111ng-1		<u> </u>		
7925.         111ng-1         AMPHI         115-119           7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         37-42           7940.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         81-105           7943.         111ng-1         Antigenic Index         111-117				106-108
7926.         111ng-1         AMPHI         128-134           7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         207-213           7933.         111ng-1         AMPHI         235-237           7934.         111ng-1         AMPHI         268-276           7935.         111ng-1         AMPHI         286-295           7937.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         26-31           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic Index         81-105           7943.         111ng-1         Antigenic Index         111-117				
7927.         111ng-1         AMPHI         142-144           7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         26-31           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         111-117	·	<del></del>		
7928.         111ng-1         AMPHI         149-154           7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7937.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         26-31           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         81-105           7943.         111ng-1         Antigenic Index         111-117				
7929.         111ng-1         AMPHI         156-162           7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7937.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         26-31           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         81-105           7943.         111ng-1         Antigenic Index         111-117				
7930.         111ng-1         AMPHI         171-177           7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         286-276           7936.         111ng-1         AMPHI         303-307           7937.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         26-31           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         81-105           7943.         111ng-1         Antigenic Index         111-117				156-162
7931.         111ng-1         AMPHI         186-191           7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         303-307           7937.         111ng-1         Antigenic Index         1-10           7938.         111ng-1         Antigenic Index         26-31           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         81-105           7943.         111ng-1         Antigenic Index         111-117				
7932.         111ng-1         AMPHI         195-202           7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         286-295           7937.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         26-31           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         81-105           7943.         111ng-1         Antigenic Index         111-117			AMPHI	
7933.         111ng-1         AMPHI         207-213           7934.         111ng-1         AMPHI         235-237           7935.         111ng-1         AMPHI         268-276           7936.         111ng-1         AMPHI         286-295           7937.         111ng-1         AMPHI         303-307           7938.         111ng-1         Antigenic Index         1-10           7939.         111ng-1         Antigenic Index         26-31           7940.         111ng-1         Antigenic Index         37-42           7941.         111ng-1         Antigenic Index         49-79           7942.         111ng-1         Antigenic Index         81-105           7943.         111ng-1         Antigenic Index         111-117				195-202
7934.       111ng-1       AMPHI       235-237         7935.       111ng-1       AMPHI       268-276         7936.       111ng-1       AMPHI       286-295         7937.       111ng-1       AMPHI       303-307         7938.       111ng-1       Antigenic Index       1-10         7939.       111ng-1       Antigenic Index       26-31         7940.       111ng-1       Antigenic Index       37-42         7941.       111ng-1       Antigenic Index       49-79         7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117				
7935.       111ng-1       AMPHI       268-276         7936.       111ng-1       AMPHI       286-295         7937.       111ng-1       AMPHI       303-307         7938.       111ng-1       Antigenic Index       1-10         7939.       111ng-1       Antigenic Index       26-31         7940.       111ng-1       Antigenic Index       37-42         7941.       111ng-1       Antigenic Index       49-79         7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117				
7936.       111ng-1       AMPHI       286-295         7937.       111ng-1       AMPHI       303-307         7938.       111ng-1       Antigenic Index       1-10         7939.       111ng-1       Antigenic Index       26-31         7940.       111ng-1       Antigenic Index       37-42         7941.       111ng-1       Antigenic Index       49-79         7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117				
7937.       111ng-1       AMPHI       303-307         7938.       111ng-1       Antigenic Index       1-10         7939.       111ng-1       Antigenic Index       26-31         7940.       111ng-1       Antigenic Index       37-42         7941.       111ng-1       Antigenic Index       49-79         7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117				T
7938.       111ng-1       Antigenic Index       1-10         7939.       111ng-1       Antigenic Index       26-31         7940.       111ng-1       Antigenic Index       37-42         7941.       111ng-1       Antigenic Index       49-79         7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117			· [ · · · · · · · · · · · · · · · · · ·	
7939.       111ng-1       Antigenic Index       26-31         7940.       111ng-1       Antigenic Index       37-42         7941.       111ng-1       Antigenic Index       49-79         7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117				
7940.       111ng-1       Antigenic Index       37-42         7941.       111ng-1       Antigenic Index       49-79         7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117		<del>-  </del>		
7941.       111ng-1       Antigenic Index       49-79         7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117				<del>                                     </del>
7942.       111ng-1       Antigenic Index       81-105         7943.       111ng-1       Antigenic Index       111-117				
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/744.	7944.	111ng-1	Antigenic Index	135-153
7945.   111ng-1   Antigenic Index   164-181				

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7966.	111ng-1	Hydrophilicity	192-205
7967.	111ng-1	Hydrophilicity	213-215
7968.	111ng-1	Hydrophilicity	217-225
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7974.	111ng-1	Hydrophilicity	314-325
7975.	111ng-1	Hydrophilicity	332-339
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7979.	115ng-1	АМРНІ	82-85
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7988.	115ng-1	AMPHI	223-227
7989.	115ng-1	АМРНІ	299-306

7990.         115ng-1         AMPHI         319-326           7991.         115ng-1         AMPHI         338-342           7992.         115ng-1         AMPHI         346-351           7993.         115ng-1         AMPHI         360-364           7994.         115ng-1         AMPHI         389-391           7995.         115ng-1         AMPHI         395-397           7996.         115ng-1         AMPHI         412-415           7997.         115ng-1         AMPHI         412-415           7999.         115ng-1         AMPHI         417-419           7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         481-483           8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         608-610           8002.         115ng-1         AMPHI         621-625           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         671-679           8005.         115ng-1         AMPHI         <				
7992.         115ng-1         AMPHI         346-351           7993.         115ng-1         AMPHI         360-364           7994.         115ng-1         AMPHI         395-397           7995.         115ng-1         AMPHI         412-415           7997.         115ng-1         AMPHI         417-419           7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         512-518           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         671-679           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antig	7990.	115ng-1	АМРНІ	319-326
7993.         115ng-1         AMPHI         360-364           7994.         115ng-1         AMPHI         389-391           7995.         115ng-1         AMPHI         395-397           7996.         115ng-1         AMPHI         412-415           7997.         115ng-1         AMPHI         417-419           7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         487-497           8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         671-679           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         67-74           8010.         115ng-1         Antig	7991.	115ng-1	AMPHI	338-342
7993.         115ng-1         AMPHI         360-364           7994.         115ng-1         AMPHI         389-391           7995.         115ng-1         AMPHI         395-397           7996.         115ng-1         AMPHI         412-415           7997.         115ng-1         AMPHI         417-419           7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         481-483           8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         608-610           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antig	7992.		АМРНІ	346-351
7994.         115ng-1         AMPHI         389-391           7995.         115ng-1         AMPHI         395-397           7996.         115ng-1         AMPHI         412-415           7997.         115ng-1         AMPHI         417-419           7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         481-483           8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         512-518           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         658-660           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         Antigenic Index         4-30           8008.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         47-74           8011.         115ng-1         Antigenic Index         105-108           8013.         115ng-1	7993.		AMPHI	360-364
7995.         115ng-1         AMPHI         395-397           7996.         115ng-1         AMPHI         412-415           7997.         115ng-1         AMPHI         417-419           7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         481-483           8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         512-518           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         658-660           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         32-61           8011.         115ng-1         Antigenic Index         76-100           8012.         115ng-1         Antigenic Index         12-137           8013.         115ng-1 <td>7994.</td> <td></td> <td>AMPHI</td> <td></td>	7994.		AMPHI	
7996.         115ng-1         AMPHI         412-415           7997.         115ng-1         AMPHI         417-419           7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         487-497           8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         512-518           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         671-679           8004.         115ng-1         AMPHI         687-693           8005.         115ng-1         AMPHI         709-720           8006.         115ng-1         Antigenic Index         4-30           8007.         115ng-1         Antigenic Index         32-61           8008.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         4-74           8011.         115ng-1         Antigenic Index         105-108           8012.         115ng	7995.		AMPHI	395-397
7997.         115ng-1         AMPHI         417-419           7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         481-483           8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         512-518           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         658-660           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         76-100           8011.         115ng-1         Antigenic Index         105-108           8012.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.			AMPHI	412-415
7998.         115ng-1         AMPHI         434-440           7999.         115ng-1         AMPHI         481-483           8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         512-518           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         671-679           8005.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         76-100           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         140-143           8015.         115ng-1         Antigenic Index         175-177				
Type				
8000.         115ng-1         AMPHI         487-497           8001.         115ng-1         AMPHI         512-518           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         658-660           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         76-100           8011.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         112-115           8015.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177      <	7999.		AMPHI	481-483
8001.         115ng-1         AMPHI         512-518           8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         658-660           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         709-720           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         219-223 </td <td>8000.</td> <td></td> <td>AMPHI</td> <td></td>	8000.		AMPHI	
8002.         115ng-1         AMPHI         608-610           8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         658-660           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         709-720           8007.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         76-100           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         140-143           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index	8001.		AMPHI	512-518
8003.         115ng-1         AMPHI         621-625           8004.         115ng-1         AMPHI         658-660           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         76-100           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         151-173           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index				"- ''
8004.         115ng-1         AMPHI         658-660           8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         67-74           8010.         115ng-1         Antigenic Index         76-100           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         140-143           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         180-210           8019.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index         235-244           8021.         115ng-1         Antigenic Index				
8005.         115ng-1         AMPHI         671-679           8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         105-108           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         140-143           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         180-210           8019.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index         225-244           8021.         115ng-1         Antigenic In				
8006.         115ng-1         AMPHI         687-693           8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         105-108           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         140-143           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         180-210           8019.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index         225-244           8021.         115ng-1         Antigenic Index         270-273           8023.         115ng-1         An			·	
8007.         115ng-1         AMPHI         709-720           8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         105-108           8012.         115ng-1         Antigenic Index         112-115           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         140-143           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         180-210           8019.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index         235-244           8021.         115ng-1         Antigenic Index         270-273           8022.         115ng-1         Antigenic Index         279-292           8024.         115ng-1				
8008.         115ng-1         Antigenic Index         4-30           8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         76-100           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         140-143           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         180-210           8019.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index         235-244           8021.         115ng-1         Antigenic Index         270-273           8022.         115ng-1         Antigenic Index         279-292           8024.         115ng-1         Antigenic Index         307-313           8025.         115ng-1<				
8009.         115ng-1         Antigenic Index         32-61           8010.         115ng-1         Antigenic Index         67-74           8011.         115ng-1         Antigenic Index         76-100           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         140-143           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         180-210           8019.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index         235-244           8021.         115ng-1         Antigenic Index         256-265           8022.         115ng-1         Antigenic Index         270-273           8023.         115ng-1         Antigenic Index         296-305           8024.         115ng-1         Antigenic Index         307-313           8025.         115ng		T		····
8010.       115ng-1       Antigenic Index       67-74         8011.       115ng-1       Antigenic Index       76-100         8012.       115ng-1       Antigenic Index       105-108         8013.       115ng-1       Antigenic Index       112-115         8014.       115ng-1       Antigenic Index       122-137         8015.       115ng-1       Antigenic Index       140-143         8016.       115ng-1       Antigenic Index       151-173         8017.       115ng-1       Antigenic Index       175-177         8018.       115ng-1       Antigenic Index       180-210         8019.       115ng-1       Antigenic Index       219-223         8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       296-305         8024.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       358-360         8027.       115ng-1       Antigenic Index       362-364         8029.       115ng-1<				32-61
8011.         115ng-1         Antigenic Index         76-100           8012.         115ng-1         Antigenic Index         105-108           8013.         115ng-1         Antigenic Index         112-115           8014.         115ng-1         Antigenic Index         122-137           8015.         115ng-1         Antigenic Index         140-143           8016.         115ng-1         Antigenic Index         151-173           8017.         115ng-1         Antigenic Index         175-177           8018.         115ng-1         Antigenic Index         180-210           8019.         115ng-1         Antigenic Index         219-223           8020.         115ng-1         Antigenic Index         235-244           8021.         115ng-1         Antigenic Index         256-265           8022.         115ng-1         Antigenic Index         270-273           8023.         115ng-1         Antigenic Index         296-305           8024.         115ng-1         Antigenic Index         307-313           8026.         115ng-1         Antigenic Index         358-360           8027.         115ng-1         Antigenic Index         362-364           8029.         1				· · · · · · · · · · · · · · · · · · ·
8012.       115ng-1       Antigenic Index       105-108         8013.       115ng-1       Antigenic Index       112-115         8014.       115ng-1       Antigenic Index       122-137         8015.       115ng-1       Antigenic Index       140-143         8016.       115ng-1       Antigenic Index       151-173         8017.       115ng-1       Antigenic Index       175-177         8018.       115ng-1       Antigenic Index       180-210         8019.       115ng-1       Antigenic Index       219-223         8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       307-313         8025.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng				<del></del>
8013.       115ng-1       Antigenic Index       112-115         8014.       115ng-1       Antigenic Index       122-137         8015.       115ng-1       Antigenic Index       140-143         8016.       115ng-1       Antigenic Index       151-173         8017.       115ng-1       Antigenic Index       175-177         8018.       115ng-1       Antigenic Index       180-210         8019.       115ng-1       Antigenic Index       219-223         8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       296-305         8024.       115ng-1       Antigenic Index       307-313         8025.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386				
8015.       115ng-1       Antigenic Index       140-143         8016.       115ng-1       Antigenic Index       151-173         8017.       115ng-1       Antigenic Index       175-177         8018.       115ng-1       Antigenic Index       180-210         8019.       115ng-1       Antigenic Index       219-223         8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       296-305         8025.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       358-360         8027.       115ng-1       Antigenic Index       362-364         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       380-386	8013.		Antigenic Index	112-115
8016.       115ng-1       Antigenic Index       151-173         8017.       115ng-1       Antigenic Index       175-177         8018.       115ng-1       Antigenic Index       180-210         8019.       115ng-1       Antigenic Index       219-223         8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       307-313         8025.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8014.	115ng-1	Antigenic Index	122-137
8017.       115ng-1       Antigenic Index       175-177         8018.       115ng-1       Antigenic Index       180-210         8019.       115ng-1       Antigenic Index       219-223         8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       307-313         8025.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8015.	115ng-1	Antigenic Index	140-143
8018.       115ng-1       Antigenic Index       180-210         8019.       115ng-1       Antigenic Index       219-223         8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       307-313         8025.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8016.		Antigenic Index	151-173
8019.       115ng-1       Antigenic Index       219-223         8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       296-305         8025.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       358-360         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8017.	115ng-1	Antigenic Index	175-177
8020.       115ng-1       Antigenic Index       235-244         8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       296-305         8025.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8018.	115ng-1	Antigenic Index	180-210
8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       296-305         8025.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8019.	115ng-1	Antigenic Index	219-223
8021.       115ng-1       Antigenic Index       256-265         8022.       115ng-1       Antigenic Index       270-273         8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       296-305         8025.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8020.	115ng-1	Antigenic Index	235-244
8023.       115ng-1       Antigenic Index       279-292         8024.       115ng-1       Antigenic Index       296-305         8025.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8021.	115ng-1	Antigenic Index	256-265
8024.       115ng-1       Antigenic Index       296-305         8025.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8022.	115ng-1	Antigenic Index	270-273
8025.       115ng-1       Antigenic Index       307-313         8026.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8023.	115ng-1	Antigenic Index	279-292
8026.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8024.	115ng-1	Antigenic Index	296-305
8026.       115ng-1       Antigenic Index       337-356         8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8025.	115ng-1	Antigenic Index	307-313
8027.       115ng-1       Antigenic Index       358-360         8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8026.			337-356
8028.       115ng-1       Antigenic Index       362-364         8029.       115ng-1       Antigenic Index       369-375         8030.       115ng-1       Antigenic Index       380-386	8027.			358-360
8030. 115ng-1 Antigenic Index 380-386	8028.		Antigenic Index	362-364
8030. 115ng-1 Antigenic Index 380-386	8029.	115ng-1	Antigenic Index	369-375
		115ng-1		380-386
	8031.	115ng-1	Antigenic Index	391-447
8032. 115ng-1 Antigenic Index 452-468	8032.	115ng-1	Antigenic Index	452-468
8033. 115ng-1 Antigenic Index 472-479	8033.	115ng-1		472-479

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8034.	115ng-1	Antigenic Index	487-506
8035.	115ng-1	Antigenic Index	508-526
8036.	115ng-1	Antigenic Index	530-536
8037.	115ng-1	Antigenic Index	542-552
8038.	115ng-1	Antigenic Index	559-578
8039.	115ng-1	Antigenic Index	588-617
8040.	115ng-1	Antigenic Index	621-638
8041.	115ng-1	Antigenic Index	651-666
8042.	115ng-1	Antigenic Index	688-697
8043.	115ng-1	Antigenic Index	709-721
8044.	97ng-1	АМРНІ	23-25
8045.	97ng-1	АМРНІ	47-51
8046.	97ng-1	AMPHI	61-66
8047.	97ng-1	АМРНІ	70-73
8048.	97ng-1	AMPHI	82-84
8049.	97ng-1	АМРНІ	140-149
8050.	97ng-1	Antigenic Index	21-33
8051.	97ng-1	Antigenic Index	39-61
8052.	97ng-1	Antigenic Index	68-79
8053.	97ng-1	Antigenic Index	89-96
8054.	97ng-1	Antigenic Index	98-104
8055.	97ng-1	Antigenic Index	114-130
8056.	97ng-1	Antigenic Index	135-143
8057.	97ng-1	Antigenic Index	147-154
8058.	97ng-1	Antigenic Index	156-159
8059.	97ng-1	Hydrophilicity	22-33
8060.	97ng-1	Hydrophilicity	43-45
8061.	97ng-1	Hydrophilicity	47-61
8062.	97ng-1	Hydrophilicity	68-77
8063.	97ng-1	Hydrophilicity	92-94
8064.	97ng-1	Hydrophilicity	98-103
8065.	97ng-1	Hydrophilicity	114-130
8066.	97ng-1	Hydrophilicity	137-143
8067.	97ng-1	Hydrophilicity	147-154
8068.	97ng-1	Hydrophilicity	156-159
8069.	98ng-1	AMPHI	6-19
8070.	98ng-1	AMPHI	44-54
8071.	98ng-1	AMPHI	67-73
8072.	98ng-1	AMPHI	89-100
8073.	98ng-1	AMPHI	107-120
8074.	98ng-1	AMPHI	123-126
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8075.	98ng-1	AMPHI	149-156
8075. 8076.	98ng-1 98ng-1	AMPHI AMPHI	149-156 199-201

8078.	98ng-1	Antigenic Index	1-16
8079.	98ng-1	Antigenic Index	42-45
8080.	98ng-1	Antigenic Index	51-58
8081.	98ng-1	Antigenic Index	111-128
8082.	98ng-1	Antigenic Index	136-139
8083.	98ng-1	Antigenic Index	147-154
8084.	98ng-1	Antigenic Index	157-164
8085.	98ng-1	Antigenic Index	172-177
8086.	98ng-1	Antigenic Index	184-199
8087.	98ng-1	Antigenic Index	209-233
8088.	98ng-1	Hydrophilicity	1-16
8089.	98ng-1	Hydrophilicity	53-55
8090.	98ng-1	Hydrophilicity	111-117
8091.	98ng-1	Hydrophilicity	119-128
8092.	98ng-1	Hydrophilicity	158-164
8093.	98ng-1	Hydrophilicity	184-199
8094.	98ng-1	Hydrophilicity	211-215
8095.	98ng-1	Hydrophilicity	222-233
8096.	121a-1	AMPHI	9-14
8097.	121a-1	AMPHI	31-34
8098.	121a-1	AMPHI	36-40
8099.	121a-1	AMPHI	42-54
8100.	121a-1	AMPHI	89-103
8101.	121a-1	АМРНІ	114-117
8102.	121a-1	АМРНІ	119-121
8103.	121a-1	AMPHI	123-127
8104.	121a-1	АМРНІ	134-147
8105.	121a-1	АМРНІ	154-164
8106.	121a-1	AMPHI	188-211
8107.	121a-1	АМРНІ	244-246
8108	121a-1	АМРНІ	255-261
8109.	121a-1	АМРНІ	263-285
8110.	121a-1	AMPHI	287-291
8111.	121a-1	AMPHI	314-330
8112.	121a-1	Antigenic Index	1-11
8113	121a-1	Antigenic Index	31-33
8114.	121a-1	Antigenic Index	53-63
8115	121a-1	Antigenic Index	95-97
8116.	121a-1	Antigenic Index	115-118
8117.	121a-1	Antigenic Index	120-124
8118.	121a-1	Antigenic Index	134-141
8119.	121a-1	Antigenic Index	150-156
8120.	121a-1	Antigenic Index	179-184
8121.	121a-1	Antigenic Index	187-189

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8122.	121a-1	Antigenic Index	191-193
8123.	121a-1	Antigenic Index	198-204
8124.	121a-1	Antigenic Index	234-236
8125.	121a-1	Antigenic Index	271-273
8126.	121a-1	Antigenic Index	297-306
8127.	121a-1	Antigenic Index	342-344
8128.	121a-1	Antigenic Index	352-356
8129.	121a-1	Hydrophilicity	1-9
8130.	121a-1	Hydrophilicity	65-63
8131.	121a-1	Hydrophilicity	120-124
8132.	121a-1	Hydrophilicity	136-138
8133.	121a-1	Hydrophilicity	152-154
8134.	121a-1	Hydrophilicity	187-189
8135.	121a-1	Hydrophilicity	191-193
8136.	121a-1	Hydrophilicity	298-304
8137.	121a-1	Hydrophilicity	342-344
8138.	121a-1	Hydrophilicity	353-356
8139.	122a	AMPHI	29-34
8140.	122a	AMPHI	71-77
8141.	122a	AMPHI	83-85
8142.	122a	AMPHI	94-103
8143.	122a	AMPHI	107-116
8144.	122a	AMPHI	128-132
8145.	122a	АМРНІ	136-144
8146.	122a	AMPHI	158-162
8147.	122a	AMPHI	169-172
8148.	122a	АМРНІ	177-199
8149.	122a	AMPHI	202-208
8150.	122a	AMPHI	234-245
8151.	122a	Antigenic Index	6-10
8152.	122a	Antigenic Index	28-34
8153.	122a	Antigenic Index	47-50
8154.	122a	Antigenic Index	59-61
8155.	122a	Antigenic Index	69-77
8156.	122a	Antigenic Index	85-102
8157.	122a	Antigenic Index	122-126
81 <u>58</u> .	122a	Antigenic Index	134-137
8159.	122a	Antigenic Index	140-147
8160.	122a	Antigenic Index	150-162
8161.	122a	Antigenic Index	167-177
8162.	122a	Antigenic Index	184-187
8163.	122a	Antigenic Index	190-192
8164.	122a	Antigenic Index	198-210
8165.	122a	Antigenic Index	216-218

8166.	122a	Antigenic Index	224-232
8167.	122a	Antigenic Index	246-256
8168.	122a	Hydrophilicity	28-34
8169.	122a	Hydrophilicity	88-94
8170.	122a	Hydrophilicity	97-102
8171.	122a	Hydrophilicity	122-126
8172.	122a	Hydrophilicity	140-146
8173.	122a	Hydrophilicity	153-162
8174.	122a	Hydrophilicity	167-177
8175.	122a	Hydrophilicity	190-192
8176.	122a	Hydrophilicity	198-206
8177.	122a	Hydrophilicity	208-210
8178.	122a	Hydrophilicity	226-228
8179.	122a	Hydrophilicity	246-256
8180.	125a	AMPHI	29-34
8181.	125a	AMPHI	3945
8182.	125a	АМРНІ	62-71
8183.	125a	AMPHI	89-100
8184.	125a	AMPHI	109-115
8185.	125a	АМРНІ	145-152
8186.	125a	АМРНІ	169-171
8187.	125a	AMPHI	174-182
8188.	125a	AMPHI	191-196
8189.	125a	АМРНІ	205-218
8190.	125a	AMPHI	224-229
8191.	125a	AMPHI	262-277
8192.	125a	АМРНІ	299-307
8193.	125a	AMPHI	325-332
8194.	125a	Antigenic Index	1-11
8195.	125a	Antigenic Index	37-39
8196.	125a	Antigenic Index	71-85
8197.	125a	Antigenic Index	118-122
8198.	125a	Antigenic Index	141-148
8199.	125a	Antigenic Index	172-175
8200.	125a	Antigenic Index	178-183
8201.	125a	Antigenic Index	204-213
8202.	125a	Antigenic Index	242-247
8203.	125a	Antigenic Index	288-291
8204.	125a	Antigenic Index	312-314
8205.	125a	Antigenic Index	338-347
8206.	125a	Hydrophilicity	5-10
8207.	125a	Hydrophilicity	71-76
8208.	125a	Hydrophilicity	78-84
8209.	125a	Hydrophilicity	142-147

8210.	125a	Hydrophilicity	204213
8211.	125a	Hydrophilicity	242-247
8212.	125a	Hydrophilicity	288-291
8213.	125a	Hydrophilicity	338-347
8214.	216a	AMPHI	10-12
8215.	216a	AMPHI	34-38
8216.	216a	AMPHI	52-64
8217.	216a	AMPHI	72-74
8218.	216a	AMPHI	104-112
8219.	216a	AMPHI	138-140
8220.	216a	AMPHI	157-168
8221.	216a	AMPHI	201-204
8222.	216a	AMPHI	208-214
8223.	216a	AMPHI	228-235
8224.	216a	AMPHI	264-266
8225.	216a	AMPHI	271-283
8226.	216a	AMPHI	287-290
8227.	216a	AMPHI	293-295
8228.	216a	AMPHI	312-317
8229.	216a	AMPHI	319-321
8230.	216a	Antigenic Index	8-14
8231.	216a	Antigenic Index	22-25
8232.	216a	Antigenic Index	29-39
8233.	216a	Antigenic Index	54-68
8234.	216a	Antigenic Index	77-82
8235.	216a	Antigenic Index	86-90
8236.	216a	Antigenic Index	96-121
8237.	216a	Antigenic Index	123-141
8238.	216a	Antigenic Index	146-155
8239.	216a	Antigenic Index	162-169
8240.	216a	Antigenic Index	175-184
8241.	216a	Antigenic Index	192-210
8242.	216a	Antigenic Index	212-219
8243.	216a	Antigenic Index	230-233
8244.	216a	Antigenic Index	235-238
8245.	216a	Antigenic Index	245-248
8246.	216a	Antigenic Index	256-272
8247.	216a	Antigenic Index	274-287
8248.	216a	Antigenic Index	295-318
8249.	216a	Antigenic Index	345-358
8250.	216a	Antigenic Index	363-366
8251.	216a	Hydrophilicity	31-39
8252.	216a	Hydrophilicity	54-67
8253.	216a	Hydrophilicity	77-80

8254.	216a	Hydrophilicity	86-89
8255.	216a	Hydrophilicity	97-103
8256.	216a	Hydrophilicity	108-121
8257.	216a	Hydrophilicity	123-135
8258.	216a	Hydrophilicity	138-140
8259.	216a	Hydrophilicity	149-155
8260.	216a	Hydrophilicity	162-168
8261.	216a	Hydrophilicity	175-184
8262.	216a	Hydrophilicity	193-196
8263.	216a	Hydrophilicity	212-219
8264.	216a	Hydrophilicity	230-233
8265.	216a	Hydrophilicity	245-248
8266.	216a	Hydrophilicity	257-264
8267.	216a	Hydrophilicity	266-268
	216a	Hydrophilicity	270-272
8268.		······································	
8269.	216a	Hydrophilicity	304-318
8270.	216a	Hydrophilicity	346-358
8271.	216a	Hydrophilicity	363-366
8272.	127a	AMPHI	9-16
8273.	127a	AMPHI	21-25
8274.	127a	AMPHI	85-90
8275.	127a	AMPHI	128-138
8276.	127a	Antigenic Index	1-8
8277.	127a	Antigenic Index	28-41
8278.	127a	Antigenic Index	57-81
8279.	127a	Antigenic Index	91-98
8280.	127a	Antigenic Index	103-111
8281.	127a	Antigenic Index	115-118
8282	127a	Antigenic Index	123-149
8283.	127a	Hydrophilicity	1-6
8284.	127a	Hydrophilicity	32-41
8285.	127a	Hydrophilicity	61-67
8286.	127a	Hydrophilicity	74-81
8287	127a	Hydrophilicity	91-95
8288.	127a	Hydrophilicity	103-111
8289.	127a	Hydrophilicity	115-117
8290.	127a	Hydrophilicity	124-134
8291.	127a	Hydrophilicity	139-149
8292.	128a	AMPHI	13-18
8293.	128a	AMPHI	53-56
8294.	128a	АМРНІ	68-79
8295	128a	АМРНІ	81-86
8296.	128a	AMPHI	97-107
8297.	128a	АМРНІ	162-170

8298.	128a	AMPHI	187-196
8299.	128a	AMPHI	204-208
8300.	128a	AMPHI	210-213
8301.	128a	АМРНІ	241-246
8302.	128a	AMPHI	283-285
8303.	128a	AMPHI	327-333
8304.	128a	AMPHI	335-338
8305.	128a	AMPHI	385-387
8306.	128a	AMPHI	389-392
8307.	128a	AMPHI	403-405
8308.	128a	AMPHI	412-422
8309.	128a	AMPHI	454-460
8310.	128a	AMPHI	470-472
8311.	128a	AMPHI	496-512
8312.	128a	AMPHI	529-551
8313.	128a	AMPHI	556-566
8314.	128a	AMPHI	580-585
8315.	128a	AMPHI	596-599
8316.	128a	AMPHI	606-615
8317.	128a	Antigenic Index	4-14
8318.	128a	Antigenic Index	27-34
8319.	128a	Antigenic Index	57-75
8320.	128a	Antigenic Index	98-107
8321.	128a	Antigenic Index	128-133
8322.	128a	Antigenic Index	142-144
8323.	128a	Antigenic Index	157-166
8324.	128a	Antigenic Index	185-187
8325.	128a	Antigenic Index	194-198
8326.	128a	Antigenic Index	221-235
8327.	128a	Antigenic Index	252-258
8328.	128a	Antigenic Index	277-280
8329.	128a	Antigenic Index	315-322
8330.	128a	Antigenic Index	347-356
8331.	128a	Antigenic Index	380-393
8332.	128a	Antigenic Index	410-414
8333.	128a	Antigenic Index	423-430
8334.	128a	Antigenic Index	433-440
8335.	128a	Antigenic Index	444-465
8336.	128a	Antigenic Index	475-487
8337.	128a	Antigenic Index	497-508
8338.	128a	Antigenic Index	517-535
8339.	128a	Antigenic Index	538-541
8340.	128a	Antigenic Index	547-555
8341.	128a	Antigenic Index	559-564

00.10	1.00		570.000
8342.	128a	Antigenic Index	572-280
8343.	128a	Antigenic Index	582-584
8344.	128a	Antigenic Index	587-594
8345.	128a	Antigenic Index	605-621
8346.	128a	Hydrophilicity	4-14
8347.	128a	Hydrophilicity	67-74
8348.	128a	Hydrophilicity	99-107
8349.	128a	Hydrophilicity	128-133
8350.	128a	Hydrophilicity	159-166
8351.	128a	Hydrophilicity	222-235
8352.	128a	Hydrophilicity	253-255
8353.	128a	Hydrophilicity	317-322
8354.	128a	Hydrophilicity	347-356
8355.	128a	Hydrophilicity	381-388
8356.	128a	Hydrophilicity	410-414
8357.	128a	Hydrophilicity	423-430
8358.	128a	Hydrophilicity	433-439
8359.	128a	Hydrophilicity	444-450
8360.	128a	Hydrophilicity	452-465
8361.	128a	Hydrophilicity	476-479
8362.	128a	Hydrophilicity	483-487
8363.	128a	Hydrophilicity	497-508
8364.	128a	Hydrophilicity	520-535
8365.	128a	Hydrophilicity	548-553
8366.	128a	Hydrophilicity	559-564
8367.	128a	Hydrophilicity	572-576
8368.	128a	Hydrophilicity	578-580
8369.	128a	Hydrophilicity	590-593
8370.	128a	Hydrophilicity	605-621
8371.	129a	AMPHI	38-49
8372.	129a	АМРНІ	52-55
8373.	129a	АМРНІ	132-137
8374.	129a	AMPHI	150-154
8375.	129a	АМРНІ	157-160
8376.	129a	AMPHI	170-183
8377.	129a	AMPHI	194-201
8378.	129a	AMPHI	221-223
8379.	129a	АМРНІ	230-234
8380.	129a	Antigenic Index	3-5
8381.	129a	Antigenic Index	49-53
8382.	129a	Antigenic Index	95-99
8383.	129a	Antigenic Index	102-106
8384.	129a	Antigenic Index	108-116
8385.	129a	Antigenic Index	127-130
0303.	1274		121-130

8386.	129a	Antigenic Index	140-152
8387.	129a	Antigenic Index	170-176
8388.	129a	Antigenic Index	186-191
8389.	129a	Antigenic Index	207-210
8390.	129a	Antigenic Index	212-217
8391.	129a	Antigenic Index	238-248
8392.	129a	Hydrophilicity	3-5
8393.	129a	Hydrophilicity	49-53
8394.	129a	Hydrophilicity	108-110
8395.	129a	Hydrophilicity	112-114
8396	129a	Hydrophilicity	142-152
8397.	129a	Hydrophilicity	170-175
8398.	129a	Hydrophilicity	186-190
8399.	129a	Hydrophilicity	212-215
8400.	129a	Hydrophilicity	238-248
8401.	130a	AMPHI	12-17
8402.	130a	AMPHI	42-45
8403.	130a	АМРНІ	58-68
8404.	130a	AMPHI	121-127
8405.	130a	АМРНІ	164-169
8406.	130a	AMPHI	204-206
8407.	130a	АМРНІ	218-224
8408.	130a	АМРНІ	230-232
8409.	130a	АМРНІ	236-238
8410.	130a	AMPHI	240-243
8411.	130a	АМРНІ	252-262
8412.	130a	АМРНІ	567-276
8413.	130a	AMPHI	286-288
8414.	130a	АМРНІ	292-300
8415.	130a	Antigenic Index	22-24
8416.	130a	Antigenic Index	56-62
8417.	130a	Antigenic Index	81-84
8418.	130a	Antigenic Index	105-112
8419.	130a	Antigenic Index	163-174
8420.	130a	Antigenic Index	218-224
8421.	130a	Antigenic Index	226-229
8422.	130a	Antigenic Index	287-300
8423.	130a	Antigenic Index	351-357
8424.	130a	Hydrophilicity	108-111
8425.	130a	Hydrophilicity	163-172
8426.	130a	Hydrophilicity	218-224
8427.	130a	Hydrophilicity	226-229
8428.	130a	Hydrophilicity	351-357
8429.	131a	АМРНІ	7-17

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8430.	131a	AMPHI AMPHI	23-45
8431.	131a	AMPHI	56-58
8432.	131a	AMPHI	69-73
8433.	131a	AMPHI	77-79
8434.	131a	AMPHI	86-92
8435.	131a	АМРНІ	106-112
8436.	131a	AMPHI	118-121
8437.	131a	Antigenic Index	1-5
8438.	131a	Antigenic Index	29-44
8439.	131a	Antigenic Index	49-83
8440.	131a	Antigenic Index	88-107
8441.	131a	Antigenic Index	110-135
8442.	131a	Hydrophilicity	1-5
8443.	131a	Hydrophilicity	37-44
8444.	131a	Hydrophilicity	51-65
8445.	131a	Hydrophilicity	67-81
8446.	131a	Hydrophilicity	88-95
8447.	131a	Hydrophilicity	99-107
8448.	131a	Hydrophilicity	111-135
8449.	132a	АМРНІ	10-20
8450.	132a	АМРНІ	49-59
8451.	132a	АМРНІ	72-84
8452.	132a	АМРНІ	91-93
8453.	132a	АМРНІ	142-144
8454.	132a	AMPHI	151-155
8455.	132a	AMPHI	203-210
8456.	132a	AMPHI	213-222
8457.	132a	AMPHI	236-244
8458.	132a	АМРНІ	248-252
8459.	132a	AMPHI	291-297
8460.	132a	AMPHI	311-322
8461.	132a	AMPHI	335-344
8462.	132a	AMPHI	361-366
8463.	132a	AMPHI	384-392
8464.	132a	AMPHI	405-411
8465.	132a	AMPHI	417-432
8466.	132a	Antigenic Index	8-11
8467.	132a	Antigenic Index	13-15
8468.	132a	Antigenic Index  Antigenic Index	20-39
		Antigenic Index  Antigenic Index	
8469.	132a		52-55
8470.	132a	Antigenic Index	57-64
8471.	132a	Antigenic Index	72-79
8472.	132a	Antigenic Index	83-88
8473.	132a	Antigenic Index	93-96

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8474.	132a	Antigenic Index	113-119
8475.	132a	Antigenic Index	133-135
8476.	132a	Antigenic Index	139-146
8477.	132a	Antigenic Index	148-164
8478.	132a	Antigenic Index	169-174
8479.	132a	Antigenic Index	177-193
8480.	132a	Antigenic Index	197-201
8481.	132a	Antigenic Index	220-226
8482.	132a	Antigenic Index	231-245
8483.	132a	Antigenic Index	248-257
8484.	132a	Antigenic Index	261-269
8485.	132a	Antigenic Index	273-279
8486.	132a	Antigenic Index	287-291
8487.	132a	Antigenic Index	316-333
8488.	132a	Antigenic Index	336-341
8489.	132a	Antigenic Index	343-346
8490.	132a	Antigenic Index	353-362
8491.	132a	Antigenic Index	367-378
8492.	132a	Antigenic Index	386-392
8493.	132a	Antigenic Index	398-404
8494.	132a	Antigenic Index	411-413
8495.	132a	Antigenic Index	416-422
8496.	132a	Antigenic Index	428-436
8497.	132a	Antigenic Index	442-445
8498.	132a	Antigenic Index	455-458
8499.	132a	Hydrophilicity	20-27
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8501.	132a	Hydrophilicity	57-64
8502.	132a	Hydrophilicity	72-79
8503.	132a	Hydrophilicity	113-119
8504.	132a	Hydrophilicity	151-161
8505.	132a	Hydrophilicity	169-174
8506.	132a	Hydrophilicity	177-183
8507.	- 132a	Hydrophilicity	188-191
8508.	132a	Hydrophilicity	197-201
8509.	132a	Hydrophilicity	232-237
8510.	132a	Hydrophilicity	239-242
8511.	132a	Hydrophilicity	250-254
8512.	132a	Hydrophilicity	262-269
8513.	132a	Hydrophilicity	273-279
8514.	132a	Hydrophilicity	289-291
8515.	132a	Hydrophilicity	319-331
8516.	132a	Hydrophilicity	354-360
8517.	132a	Hydrophilicity	367-373
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8518.	132a	Hydrophilicity	386-392
8519.	132a	Hydrophilicity	400-404
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8521.	132a	Hydrophilicity	428-436
8522.	132a	Hydrophilicity	455-458
8523.	133a	АМРНІ	21-36
8524.	133a	AMPHI	57-71
8525.	133a	АМРНІ	79-84
8526.	1 <u>3</u> 3a	АМРНІ	97-99
8527.	133a	AMPHI	108-119
8528.	133a	АМРНІ	137-140
8529.	133a	AMPHI	143-146
8530.	133a	АМРНІ	162-165
8531.	133a	АМРНІ	189-198
8532.	133a	AMPHI	222-231
8533.	133a	AMPHI	239-257
8534.	133a	АМРНІ	278-282
8535.	133a	AMPHI	292-299
8536.	133a	АМРНІ	342-349
8537.	133a	АМРНІ	352-381
8538.	133a	AMPHI	419-426
8539.	133a	AMPHI	443-446
8540.	133a	АМРНІ	456-458
8541.	133a	AMPHI	488-492
8542.	133a	АМРНІ	499-508
8543.	133a	АМРНІ	511-515
8544.	133a	AMPHI	518-521
8545.	133a	АМРНІ	532-538
8546.	133a	AMPHI	544-552
8547.	133a	AMPHI	557-565
8548.	133a	АМРНІ	572-575
8549.	133a	АМРНІ	606-620
8550.	133a	АМРНІ	627-630
8551.	133a	AMPHI	642-647
8552.	133a	АМРНІ	661-668
8553.	133a	АМРНІ	674-389
8554.	. 133a	АМРНІ	691-693
8555.	133a	AMPHI	698-711
8556.	133a	AMPHI	730-743
8557.	133a	AMPHI	748-764
8558.	133a	АМРНІ	797-800
8559.	133a	AMPHI	804-813
8560.	133a	AMPHI	819-821
8561.	133a	AMPHI	851-859

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8562.	133a	Antigenic Index	1-29
8563.	133a	Antigenic Index	32-34
8564.	133a	Antigenic Index	37-45
8565.	133a	Antigenic Index	50-59
8566.	133a	Antigenic Index	72-86
8567.	133a	Antigenic Index	88-94
8568.	133a	Antigenic Index	99-110
8569.	133a	Antigenic Index	115-120
8570.	133a	Antigenic Index	127-130
8571.	133a	Antigenic Index	142-152
8572.	133a	Antigenic Index	160-166
8573.	133a	Antigenic Index	172-183
8574.	133a	Antigenic Index	185-191
8575.	133a	Antigenic Index	194-196
8576.	133a	Antigenic Index	199-266
8577.	133a	Antigenic Index	268-291
8578.	133a	Antigenic Index	295-316
8579.	133a	Antigenic Index	326-328
8580.	133a	Antigenic Index	336-348
8581.	133a	Antigenic Index	354-368
8582.	133a	Antigenic Index	370-383
8583.	133a	Antigenic Index	392-403
8584.	133a	Antigenic Index	410-417
8585.	133a	Antigenic Index	424-437
8586.	133a	Antigenic Index	442-444
8587.	133a	Antigenic Index	455-461
8588.	133a	Antigenic Index	465-467
8589.	133a	Antigenic Index	482-508
8590.	133a	Antigenic Index	513-526
8591.	133a	Antigenic Index	531-536
8592.	133a	Antigenic Index	540-552
8593.	133a	Antigenic Index	559-565
8594.	133a	Antigenic Index	569-578
8595.	133a	Antigenic Index	581-595
8596.	133a	Antigenic Index	601-607
8597.	133a	Antigenic Index	624-626
8598.	133a	Antigenic Index	630-633
8599.	133a	Antigenic Index	638-653
8600.	133a	Antigenic Index	655-659
8601.	133a	Antigenic Index	669-699
8602.	133a	Antigenic Index	706-726
8603.	133a	Antigenic Index	733-778
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8604.	133a	Antigenic Index	785-789

8606.	133a	Antigenic Index	822-853
8607.	133a	Antigenic Index	858-860
8608.	133a	Antigenic Index	868-871
8609.	133a	Hydrophilicity	1-29
8610.	133a	Hydrophilicity	39-44
8611.	133a	Hydrophilicity	50-65
8612.	133a	Hydrophilicity	75-82
8613.	133a	Hydrophilicity	99-102
8614.	133a	Hydrophilicity	127-130
8615.	133a	Hydrophilicity	146-152
8616.	133a	Hydrophilicity	160-163
8617.	133a	Hydrophilicity	174-179
8618.	133a	Hydrophilicity	199-214
8619.	133a	Hydrophilicity	218-228
8620.	133a	Hydrophilicity	240-261
8621.	133a	Hydrophilicity	271-279
8622.	133a	Hydrophilicity	286-288
8623.	133a	Hydrophilicity	297-304
8624.	133a	Hydrophilicity	306-313
8625.	133a	Hydrophilicity	337-348
8626.	133a	Hydrophilicity	354-360
8627.	133a	Hydrophilicity	365-368
8628.	133a	Hydrophilicity	376-383
8629.	133a	Hydrophilicity	395-403
8630.	133a	Hydrophilicity	411-416
	133a	Hydrophilicity	425-432
8631.			
8632.	133a	Hydrophilicity	455-461
8633.	133a	Hydrophilicity Hydrophilicity	484-499
8634.	133a		513-524
8635.	133a	Hydrophilicity	545-548
8636.	133a	Hydrophilicity	569-575
8637.	133a	Hydrophilicity	583-585
8638.	133a	Hydrophilicity	587-595
8639.	133a	Hydrophilicity	601-607
8640.	133a	Hydrophilicity	640-651
8641.	133a	Hydrophilicity	672-675
8642.	133a	Hydrophilicity	678-696
8643.	133a	Hydrophilicity	706-716
8644.	133a	Hydrophilicity	737-748
8645.	133a	Hydrophilicity	760-768
8646.	133a	Hydrophilicity	770-773
8647.	133a	Hydrophilicity	785-789
8648.	133a	Hydrophilicity	795-797
8649.	133a	Hydrophilicity	799-807

8650.	133a	Hydrophilicity	809-817
8651.	133a	Hydrophilicity	824-842
8652.	133a	Hydrophilicity	846-850
8653.	134a	AMPHI	12-19
8654.	134a	АМРНІ	21-33
8655.	134a	AMPHI	37-48-109-112
8656.	134a	АМРНІ	196-205
8657.	134a	AMPHI	227-235
8658.	134a	AMPHI	248-259
8659.	134a	AMPHI	262-264
8660.	134a	АМРНІ	268-271
8661.	134a	AMPHI	335-337
8662.	134a	AMPHI	339-344
8663.	134a	AMPHI	351-357
8664.	134a	Antigenic Index	9-13
8665.	134a	Antigenic Index	34-47
8666.	134a	Antigenic Index	49-51
8667.	134a	Antigenic Index	57-70
8668.	134a	Antigenic Index	73-85
8669.	134a	Antigenic Index	91-97
8670.	134a	Antigenic Index	99-107
8671.	134a	Antigenic Index	118-141
8672.	134a	Antigenic Index	147-161
8673.	134a	Antigenic Index	165-172
8674.	134a	Antigenic Index	177-188
8675.	134a	Antigenic Index	194-197
8676.	134a	Antigenic Index	204-212
8677.	134a	Antigenic Index	214-231
8678.	134a	Antigenic Index	233-240
8679.	134a	Antigenic Index	243-261
8680.	134a	Antigenic Index	288-297
8681.	134a	Antigenic Index	301-308
8682.	134a	Antigenic Index	345-349
8683.	134a	Antigenic Index	372-378
8684.	134a	Antigenic Index	385-388
8685.	134a	Hydrophilicity	9-13
8686.	134a	Hydrophilicity	36-46
8687.	134a	Hydrophilicity	60-70
8688.	134a	Hydrophilicity	73-81
8689.	134a	Hydrophilicity	102-106
8690.	134a	Hydrophilicity	121-127
8691.	134a	Hydrophilicity	129-141
8692.	134a	Hydrophilicity	147-161
8693.	134a	Hydrophilicity	165-171

8694.	134a	Hydrophilicity	177-185
8695.	134a	Hydrophilicity	204-209
8696.	134a	Hydrophilicity	214-221
8697.	134a	Hydrophilicity	223-231
8698.	134a	Hydrophilicity	233-240
8699.	134a	Hydrophilicity	246-254
8700.	134a	Hydrophilicity	257-259
8701.	134a	Hydrophilicity	288-297
8702.	134a	Hydrophilicity	301-308
8703.	134a	Hydrophilicity	345-347
8704.	134a	Hydrophilicity	374-378
8705.	134a	Hydrophilicity	385-388
8706.	135a	АМРНІ	20-25
8707.	135a	AMPHI	27-31
8708.	135a	AMPHI	47-49
8709.	135a	AMPHI	72-76
8710.	135a	AMPHI	153-165
8711.	135a	АМРНІ	167-169
8712	135a	AMPHI	196-214
8713.	135a	AMPHI	218-220
8714.	135a	АМРНІ	229-236
8715	135a	AMPHI	249-254
8716.	135a	АМРНІ	268-271
8717.	135a	АМРНІ	280-285
8718.	135a	Antigenic Index	1-9
8719.	135a	Antigenic Index	28-33
8720.	135a	Antigenic Index	38-41
8721.	135a	Antigenic Index	59-79
8722.	135a	Antigenic Index	118-123
8723.	135a	Antigenic Index	143-151
8724.	135a	Antigenic Index	169-182
8725.	135a	Antigenic Index	209-211
8726.	135a	Antigenic Index	231-240
8727	135a	Antigenic Index	284-293
8728	135a	Antigenic Index	297-300
8729.	135a	Hydrophilicity	1-9
8730	135a_	Hydrophilicity	28-33
8731.	135a	Hydrophilicity	59-66
8732.	135 <u>a</u>	Hydrophilicity	73-75
8733.	135a	Hydrophilicity	118-123
8734.	135a	Hydrophilicity	145-151
8735.	135a	Hydrophilicity	169-175
8736.	135a	Hydrophilicity	231-240
8737.	135a	Hydrophilicity	287-293

8738.	135a	Hydrophilicity	297-300
8739.	136a	AMPHI	17-19
8740.	136a	AMPHI	21-30
8741.	136a		52-60
· · · · · · · · · · · · · · · · · · ·		AMPHI	
8742.	136a	AMPHI	63-65
8743.	136a	AMPHI	95-102
8744.	136a	AMPHI	106-120
8745.	136a	AMPHI	135-144
8746.	136a	AMPHI	164-168
8747.	136a	AMPHI	174-195
8748.	136a	AMPHI	212-216
8749.	136a	Antigenic Index	1-6
8750.	136a	Antigenic Index	56-56
8751.	136a	Antigenic Index	73-78
8752.	136a	Antigenic Index	98-103
8753.	136a	Antigenic Index	126-129
8754.	136a	Antigenic Index	147-153
8755.	136a	Antigenic Index	155-174
8756.	136a	Antigenic Index	178-187
8757.	136a	Antigenic Index	194-197
8758.	136a	Antigenic Index	203-207
8759.	136a	Antigenic Index	220-233
8760.	136a	Hydrophilicity	1-6
8761.	136a	Hydrophilicity	56-60
8762.	136a	Hydrophilicity	98-103
8763.	136a	Hydrophilicity	126-129
8764.	136a	Hydrophilicity	147-153
8765.	136a	Hydrophilicity	155-174
8766.	136a	Hydrophilicity	178-184
8767.	136a	Hydrophilicity	205-207
8768.	136a	Hydrophilicity	221-233
8769.	137a	AMPHI	6-13
8770.	137a	AMPHI	21-25
8771.	1 <u>3</u> 7a	AMPHI	29-38
8772.	137a	АМРНІ	40-45
8773.	137a	AMPHI	54-58
8774.	137a	АМРНІ	60-69
8775.	137a	AMPHI	78-80
8776.	137a	AMPHI	82-85
8777.	137a	AMPHI	87-91
8778.	137a	АМРНІ	123-132
8779.	137a	AMPHI	155-160
8780.	137a	AMPHI	166-183
8781.	137a	AMPHI	194-196

8782. 8783.	137a	AMPHI	199-201
8783.			
	137a	АМРНІ	221-238
8784.	137a	АМРНІ	241-243
8785.	137a	АМРНІ	264-269
8786.	137a	АМРНІ	283-286
8787.	137a	Antigenic Index	8-12
8788.	137a	Antigenic Index	27-42
8789.	137a	Antigenic Index	51-58
8790.	137a	Antigenic Index	66-73
8791.	137a	Antigenic Index	80-82
8792.	137a	Antigenic Index	91-112
8793.	137a	Antigenic Index	122-141
8794.	137a	Antigenic Index	152-158
8795.	137a	Antigenic Index	164-172
8796.	137a	Antigenic Index	190-200
8797.	137a	Antigenic Index	204-207
8798.	137a	Antigenic Index	218-227
8799.	137a	Antigenic Index	249-252
8800.	137a	Antigenic Index	255-27
8801.	137a	Antigenic Index	268-285
8802.	137a	Antigenic Index	287-296
8803.	137a	Hydrophilicity	8-12
8804.	137a	Hydrophilicity	31-41
8805.	137a	Hydrophilicity	53-55
8806.	137a	Hydrophilicity	66-72
8807.	137a	Hydrophilicity	94-112
8808.	137a	Hydrophilicity	122-128
8809.	137a	Hydrophilicity	131-141
8810.	137a	Hydrophilicity	152-158
8811.	137a	Hydrophilicity	169-172
8812.	137a	Hydrophilicity	204-210
8813.	137a	Hydrophilicity	218-226
8814.	137a	Hydrophilicity	250-252
8815.	137a	Hydrophilicity	255-257
8816.	137a	Hydrophilicity	270-285
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9224.         109a-1         Antigenic Index         24-28           9225.         109a-1         Antigenic Index         49-52           9226.         109a-1         Antigenic Index         96-100           9227.         109a-1         Antigenic Index         96-100           9228.         109a-1         Antigenic Index         119-131           9229.         109a-1         Antigenic Index         247-254           9230.         109a-1         Antigenic Index         226-231           9231.         109a-1         Antigenic Index         227-254           9232.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         226-231           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62	9222.	109a-1	АМРНІ	171-181
9225.         109a-1         Antigenic Index         64-77           9226.         109a-1         Antigenic Index         64-77           9227.         109a-1         Antigenic Index         96-100           9228.         109a-1         Antigenic Index         119-131           9229.         109a-1         Antigenic Index         25-231           9230.         109a-1         Antigenic Index         247-254           9231.         109a-1         Antigenic Index         247-254           9232.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         120-131           9237.         109a-1         Hydrophilicity         226-231           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         27-30           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         90-96	9223.	109a-1	AMPHI	229-231
9226.         109a-1         Antigenic Index         64-77           9227.         109a-1         Antigenic Index         96-100           9228.         109a-1         Antigenic Index         119-131           9229.         109a-1         Antigenic Index         154-156           9230.         109a-1         Antigenic Index         226-231           9231.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         68-74           9235.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         226-231           9238.         111a-1         AMPHI         27-253           9238.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         64-79           9242.         111a-1         AMPHI         90-96           9243.         111a-1         AMPHI         100-96	9224.	109a-1	Antigenic Index	24-28
9227.         109a-1         Antigenic Index         96-100           9228.         109a-1         Antigenic Index         119-131           9229.         109a-1         Antigenic Index         154-156           9230.         109a-1         Antigenic Index         226-231           9231.         109a-1         Antigenic Index         247-254           9232.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         227-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         6-14           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         60-62           9243.         111a-1         AMPHI         90-902 <td< td=""><td>9225.</td><td>109a-1</td><td>Antigenic Index</td><td>49-52</td></td<>	9225.	109a-1	Antigenic Index	49-52
9228.         109a-1         Antigenic Index         119-131           9229.         109a-1         Antigenic Index         154-156           9230.         109a-1         Antigenic Index         226-231           9231.         109a-1         Antigenic Index         247-254           9232.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         68-74           9235.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         226-231           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-253           9238.         111a-1         AMPHI         45-48           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         64-79           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         114-116           9244. <td>9226.</td> <td>109a-1</td> <td>Antigenic Index</td> <td>64-77</td>	9226.	109a-1	Antigenic Index	64-77
9229.         109a-1         Antigenic Index         154-156           9230.         109a-1         Antigenic Index         226-231           9231.         109a-1         Antigenic Index         247-254           9232.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         120-131           9235.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         247-253           9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         90-6           9244.         111a-1         AMPHI         114-116           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.	9227.	109a-1	Antigenic Index	96-100
9230.         109a-1         Antigenic Index         226-231           9231.         109a-1         Antigenic Index         247-254           9232.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         120-131           9235.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         64-79           9242.         111a-1         AMPHI         90-96           9242.         111a-1         AMPHI         99-102           9243.         111a-1         AMPHI         99-102           9244.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         116-149           9248.         111a-1	9228.	109a-1	Antigenic Index	119-131
9231.         109a-1         Antigenic Index         247-254           9232.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         120-131           9235.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         99-96           9244.         111a-1         AMPHI         114-116           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         114-146           9247.         111a-1         AMPHI         151-159           9248.         111a-1	9229.	109a-1	Antigenic Index	154-156
9232.         109a-1         Hydrophilicity         50-52           9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         68-74           9235.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         90-96           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         114-116           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         114-149           9248.         111a-1         AMPHI         116-149           9249.         111a-1         AMPHI         1176-179           9251.         111a-1         AM	9230.	109a-1	Antigenic Index	226-231
9233.         109a-1         Hydrophilicity         64-66           9234.         109a-1         Hydrophilicity         68-74           9235.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         64-79           9242.         111a-1         AMPHI         90-96           9243.         111a-1         AMPHI         99-102           9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         114-149           9248.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI	9231.	109a-1	Antigenic Index	247-254
9234.         109a-1         Hydrophilicity         68-74           9235.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         1128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI	9232.	109a-1	Hydrophilicity	50-52
9235.         109a-1         Hydrophilicity         120-131           9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         90-96           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         114-116           9247.         111a-1         AMPHI         151-159           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         176-179           9250.         111a-1         AMPHI         183-190           9252.         111a-1         AMPHI         183-290           9253.         111a-1         AMPHI         20	9233.	109a-1	Hydrophilicity	64-66
9236.         109a-1         Hydrophilicity         226-231           9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         1128-134           9247.         111a-1         AMPHI         151-159           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         183-190           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         237-246 <td>9234.</td> <td>109a-1</td> <td>Hydrophilicity</td> <td>68-74</td>	9234.	109a-1	Hydrophilicity	68-74
9237.         109a-1         Hydrophilicity         247-253           9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         99-96           9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         114-116           9247.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         151-159           9248.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         183-190           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         273-276 <td>9235.</td> <td>109a-1</td> <td>Hydrophilicity</td> <td>120-131</td>	9235.	109a-1	Hydrophilicity	120-131
9238.         111a-1         AMPHI         6-14           9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         183-190           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         237-240           9255.         111a-1         AMPHI         314-318 <t< td=""><td>9236.</td><td>109a-1</td><td>Hydrophilicity</td><td>226-231</td></t<>	9236.	109a-1	Hydrophilicity	226-231
9239.         111a-1         AMPHI         27-30           9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         114-116           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         183-190           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         237-240           9255.         111a-1         AMPHI         314-318           9257.         111a-1         AMPHI         30-322	9237.	109a-1	Hydrophilicity	247-253
9240.         111a-1         AMPHI         45-48           9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         114-116           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         198-200           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         237-240           9255.         111a-1         AMPHI         314-318           9257.         111a-1         AMPHI         314-318           9257.         111a-1         Antigenic Index         1-10	9238.	111a-1	АМРНІ	6-14
9241.         111a-1         AMPHI         60-62           9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         183-190           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         237-240           9255.         111a-1         AMPHI         273-276           9256.         111a-1         AMPHI         314-318           9257.         111a-1         Antigenic Index         1-10           9259.         111a-1         Antigenic Index         37-42	9239.	111a-1	AMPHI	27-30
9242.         111a-1         AMPHI         64-79           9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         199-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         183-190           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         237-240           9255.         111a-1         AMPHI         273-276           9256.         111a-1         AMPHI         314-318           9257.         111a-1         Antigenic Index         1-10           9259.         111a-1         Antigenic Index         37-42           9260.         111a-1         Antigenic Index	9240.	111a-1	АМРНІ	45-48
9243.         111a-1         AMPHI         90-96           9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9250.         111a-1         AMPHI         183-190           9251.         111a-1         AMPHI         198-200           9252.         111a-1         AMPHI         209-215           9253.         111a-1         AMPHI         237-240           9254.         111a-1         AMPHI         273-276           9255.         111a-1         AMPHI         314-318           9257.         111a-1         AMPHI         320-322           9258.         111a-1         Antigenic Index         1-10           9259.         111a-1         Antigenic Index         37-42           9260.         111a-1         Antigenic Index	9241.	111a-1	АМРНІ	60-62
9244.         111a-1         AMPHI         99-102           9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         198-200           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         237-240           9255.         111a-1         AMPHI         273-276           9256.         111a-1         AMPHI         314-318           9257.         111a-1         AMPHI         320-322           9258.         111a-1         Antigenic Index         1-10           9259.         111a-1         Antigenic Index         37-42           9260.         111a-1         Antigenic Index         49-105           9261.         111a-1         Antigenic Index	9242.	111a-1	АМРНІ	64-79
9245.         111a-1         AMPHI         114-116           9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         198-200           9252.         111a-1         AMPHI         209-215           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         237-240           9255.         111a-1         AMPHI         314-318           9257.         111a-1         AMPHI         314-318           9257.         111a-1         Antigenic Index         1-10           9259.         111a-1         Antigenic Index         26-31           9260.         111a-1         Antigenic Index         37-42           9261.         111a-1         Antigenic Index         49-105           9262.         111a-1         Antigenic Index         163-181           9264.         111a-1	9243.	111a-1	AMPHI	90-96
9246.         111a-1         AMPHI         128-134           9247.         111a-1         AMPHI         146-149           9248.         111a-1         AMPHI         151-159           9249.         111a-1         AMPHI         170-174           9250.         111a-1         AMPHI         176-179           9251.         111a-1         AMPHI         183-190           9252.         111a-1         AMPHI         198-200           9253.         111a-1         AMPHI         209-215           9254.         111a-1         AMPHI         237-240           9255.         111a-1         AMPHI         273-276           9256.         111a-1         AMPHI         314-318           9257.         111a-1         AMPHI         320-322           9258.         111a-1         Antigenic Index         1-10           9259.         111a-1         Antigenic Index         26-31           9260.         111a-1         Antigenic Index         49-105           9261.         111a-1         Antigenic Index         135-153           9263.         111a-1         Antigenic Index         163-181           9264.         111a-1	9244.	111a-1	AMPHI	99-102
9247.       111a-1       AMPHI       146-149         9248.       111a-1       AMPHI       151-159         9249.       111a-1       AMPHI       170-174         9250.       111a-1       AMPHI       176-179         9251.       111a-1       AMPHI       183-190         9252.       111a-1       AMPHI       198-200         9253.       111a-1       AMPHI       209-215         9254.       111a-1       AMPHI       237-240         9255.       111a-1       AMPHI       314-318         9256.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       49-105         9261.       111a-1       Antigenic Index       135-153         9262.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9245.	111a-1	AMPHI	114-116
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9249.       111a-1       AMPHI       170-174         9250.       111a-1       AMPHI       176-179         9251.       111a-1       AMPHI       183-190         9252.       111a-1       AMPHI       198-200         9253.       111a-1       AMPHI       209-215         9254.       111a-1       AMPHI       237-240         9255.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       37-42         9260.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9247.	111a-1	AMPHI	146-149
9250.       111a-1       AMPHI       176-179         9251.       111a-1       AMPHI       183-190         9252.       111a-1       AMPHI       198-200         9253.       111a-1       AMPHI       209-215         9254.       111a-1       AMPHI       237-240         9255.       111a-1       AMPHI       273-276         9256.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9248.	111a-1	АМРНІ	151-159
9251.       111a-1       AMPHI       183-190         9252.       111a-1       AMPHI       198-200         9253.       111a-1       AMPHI       209-215         9254.       111a-1       AMPHI       237-240         9255.       111a-1       AMPHI       273-276         9256.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9249.	111a-1	АМРНІ	170-174
9252.       111a-1       AMPHI       198-200         9253.       111a-1       AMPHI       209-215         9254.       111a-1       AMPHI       237-240         9255.       111a-1       AMPHI       273-276         9256.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9250.	111a-1	AMPHI	176-179
9253.       111a-1       AMPHI       209-215         9254.       111a-1       AMPHI       237-240         9255.       111a-1       AMPHI       273-276         9256.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9251.	111a-1	АМРНІ	183-190
9254.       111a-1       AMPHI       237-240         9255.       111a-1       AMPHI       273-276         9256.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9252.	11 <u>1a-1</u>	AMPHI	198-200
9255.       111a-1       AMPHI       273-276         9256.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9253.	111a-1	AMPHI	209-215
9256.       111a-1       AMPHI       314-318         9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9254.	111a-1	AMPHI	237-240
9257.       111a-1       AMPHI       320-322         9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9255.	111a-1	АМРНІ	273-276
9258.       111a-1       Antigenic Index       1-10         9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9256.	111a-1	АМРНІ	314-318
9259.       111a-1       Antigenic Index       26-31         9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9257.	111a-1	AMPHI	320-322
9260.       111a-1       Antigenic Index       37-42         9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9258.	11 <u>1a-1</u>	Antigenic Index	1-10
9261.       111a-1       Antigenic Index       49-105         9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9259.	111a-1	Antigenic Index	26-31
9262.       111a-1       Antigenic Index       135-153         9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9260.	111a-1	Antigenic Index	37-42
9263.       111a-1       Antigenic Index       163-181         9264.       111a-1       Antigenic Index       192-194	9261.	111a-1	Antigenic Index	49-105
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9317.         119a-1         Antigenic Index         156-16           9318.         119a-1         Antigenic Index         156-16           9319.         119a-1         Antigenic Index         179-186           9320.         119a-1         Antigenic Index         202-208           9321.         119a-1         Antigenic Index         202-204           9322.         119a-1         Antigenic Index         229-241           9323.         119a-1         Antigenic Index         229-241           9324.         119a-1         Antigenic Index         244-247           9325.         119a-1         Antigenic Index         252-255           9326.         119a-1         Antigenic Index         290-292           9327.         119a-1         Antigenic Index         290-292           9328.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         309-314           9331.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         336-366           9333.         119a-1	9315.	119a-1	Antigenic Index	60-87
9318.         119a-1         Antigenic Index         179-186           9319.         119a-1         Antigenic Index         179-186           9320.         119a-1         Antigenic Index         188-196           9321.         119a-1         Antigenic Index         202-208           9322.         119a-1         Antigenic Index         212-214           9323.         119a-1         Antigenic Index         229-241           9324.         119a-1         Antigenic Index         252-255           9325.         119a-1         Antigenic Index         278-281           9327.         119a-1         Antigenic Index         290-292           9328.         119a-1         Antigenic Index         290-292           9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         331-337           9333.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1	9316.	119a-1	Antigenic Index	91-114
9319.         119a-1         Antigenic Index         179-186           9320.         119a-1         Antigenic Index         188-196           9321.         119a-1         Antigenic Index         202-208           9322.         119a-1         Antigenic Index         212-214           9323.         119a-1         Antigenic Index         229-241           9323.         119a-1         Antigenic Index         244-247           9324.         119a-1         Antigenic Index         252-255           9326.         119a-1         Antigenic Index         290-292           9327.         119a-1         Antigenic Index         296-300           9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         318-34           9332.         119a-1         Antigenic Index         318-34           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1	9317.	119a-1	Antigenic Index	118-151
9320.         119a-1         Antigenic Index         202-208           9321.         119a-1         Antigenic Index         202-208           9322.         119a-1         Antigenic Index         212-214           9323.         119a-1         Antigenic Index         229-241           9324.         119a-1         Antigenic Index         244-247           9325.         119a-1         Antigenic Index         252-255           9326.         119a-1         Antigenic Index         290-292           9327.         119a-1         Antigenic Index         290-292           9328.         119a-1         Antigenic Index         296-300           9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         376-378           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         407-412           9338.         119a-1	9318.	119a-1	Antigenic Index	156-16
9321.         119a-1         Antigenic Index         202-208           9322.         119a-1         Antigenic Index         212-214           9323.         119a-1         Antigenic Index         229-241           9324.         119a-1         Antigenic Index         244-247           9325.         119a-1         Antigenic Index         252-255           9326.         119a-1         Antigenic Index         290-292           9328.         119a-1         Antigenic Index         296-300           9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         31-337           9332.         119a-1         Antigenic Index         31-337           9331.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         376-378           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1	9319.	119a-1	Antigenic Index	179-186
9322.         119a-1         Antigenic Index         212-214           9323.         119a-1         Antigenic Index         229-241           9324.         119a-1         Antigenic Index         244-247           9325.         119a-1         Antigenic Index         252-255           9326.         119a-1         Antigenic Index         290-292           9327.         119a-1         Antigenic Index         296-300           9328.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         31-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         385-393           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Hydrophilicity         23-42           9340.         119a-1	9320.	119a-1	Antigenic Index	188-196
9323.         119a-1         Antigenic Index         229-241           9324.         119a-1         Antigenic Index         244-247           9325.         119a-1         Antigenic Index         252-255           9326.         119a-1         Antigenic Index         290-292           9327.         119a-1         Antigenic Index         290-300           9328.         119a-1         Antigenic Index         309-314           9329.         119a-1         Antigenic Index         318-324           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         31-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Hydrophilicity         23-42           9340.         119a-1	9321.	119a-1	Antigenic Index	202-208
9324.         119a-1         Antigenic Index         244-247           9325.         119a-1         Antigenic Index         252-255           9326.         119a-1         Antigenic Index         278-281           9327.         119a-1         Antigenic Index         290-292           9328.         119a-1         Antigenic Index         309-314           9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         376-378           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9340.         119a-1         Antigenic Index         407-412           9338.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1 <t< td=""><td>9322.</td><td>119a-1</td><td>Antigenic Index</td><td>212-214</td></t<>	9322.	119a-1	Antigenic Index	212-214
9325.         119a-1         Antigenic Index         252-255           9326.         119a-1         Antigenic Index         278-281           9327.         119a-1         Antigenic Index         290-292           9328.         119a-1         Antigenic Index         309-314           9329.         119a-1         Antigenic Index         318-324           9330.         119a-1         Antigenic Index         331-337           9331.         119a-1         Antigenic Index         341-348           9332.         119a-1         Antigenic Index         356-366           9333.         119a-1         Antigenic Index         376-378           9334.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         415-423           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         63-79           9342.         119a-1         H	9323.	119a-1	Antigenic Index	229-241
9326.         119a-1         Antigenic Index         278-281           9327.         119a-1         Antigenic Index         290-292           9328.         119a-1         Antigenic Index         296-300           9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         415-423           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         91-97           9342.         119a-1         H	9324.	119a-1	Antigenic Index	244-247
9327.         119a-1         Antigenic Index         290-292           9328.         119a-1         Antigenic Index         296-300           9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         407-412           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         45-56           9342.         119a-1         Hydrophilicity         91-97           9343.         119a-1         Hydr	9325.	119a-1	Antigenic Index	252-255
9328.         119a-1         Antigenic Index         296-300           9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         415-423           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         81-87           9342.         119a-1         Hydrophilicity         91-97           9344.         119a-1         Hydrophilicity         91-97           9345.         119a-1         Hydroph	9326.	119a-1	Antigenic Index	278-281
9329.         119a-1         Antigenic Index         309-314           9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         415-423           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         63-79           9342.         119a-1         Hydrophilicity         91-97           9344.         119a-1         Hydrophilicity         99-113           9345.         119a-1         Hydrophilicity         130-140           9347.         119a-1         Hydroph	9327.	119a-1	Antigenic Index	290-292
9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         407-412           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         45-56           9342.         119a-1         Hydrophilicity         91-97           9344.         119a-1         Hydrophilicity         99-113           9345.         119a-1         Hydrophilicity         121-127           9346.         119a-1         Hydrophilicity         130-140           9347.         119a-1         Hydrophi	9328.	119a-1	Antigenic Index	296-300
9330.         119a-1         Antigenic Index         318-324           9331.         119a-1         Antigenic Index         331-337           9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         407-412           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         415-423           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         81-87           9342.         119a-1         Hydrophilicity         91-97           9344.         119a-1         Hydrophilicity         99-113           9345.         119a-1         Hydrophilicity         121-127           9346.         119a-1         Hydrophilicity         130-140           9347.         119a-1         Hydrophi	9329.	119a-1	Antigenic Index	309-314
9332.         119a-1         Antigenic Index         341-348           9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         415-423           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         63-79           9342.         119a-1         Hydrophilicity         91-97           9343.         119a-1         Hydrophilicity         99-113           9345.         119a-1         Hydrophilicity         121-127           9346.         119a-1         Hydrophilicity         130-140           9347.         119a-1         Hydrophilicity         156-161           9349.         119a-1         Hydrophilicity         179-186           9350.         119a-1         Hydrophili	9330.	119a-1	Antigenic Index	318-324
9333.         119a-1         Antigenic Index         356-366           9334.         119a-1         Antigenic Index         376-378           9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         407-412           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         415-423           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         81-87           9342.         119a-1         Hydrophilicity         91-97           9343.         119a-1         Hydrophilicity         99-113           9345.         119a-1         Hydrophilicity         121-127           9346.         119a-1         Hydrophilicity         130-140           9347.         119a-1         Hydrophilicity         156-161           9349.         119a-1         Hydrophilicity         179-186           9350.         119a-1         Hydrophilicity         190-195           9351.         119a-1         Hydrophilic	9331.	119a-1	Antigenic Index	331-337
9334.       119a-1       Antigenic Index       376-378         9335.       119a-1       Antigenic Index       385-393         9336.       119a-1       Antigenic Index       398-401         9337.       119a-1       Antigenic Index       407-412         9338.       119a-1       Antigenic Index       415-423         9339.       119a-1       Hydrophilicity       23-42         9340.       119a-1       Hydrophilicity       63-79         9341.       119a-1       Hydrophilicity       81-87         9342.       119a-1       Hydrophilicity       91-97         9343.       119a-1       Hydrophilicity       99-113         9344.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9332.	119a-1	Antigenic Index	341-348
9335.         119a-1         Antigenic Index         385-393           9336.         119a-1         Antigenic Index         398-401           9337.         119a-1         Antigenic Index         407-412           9338.         119a-1         Antigenic Index         415-423           9339.         119a-1         Hydrophilicity         23-42           9340.         119a-1         Hydrophilicity         45-56           9341.         119a-1         Hydrophilicity         81-87           9342.         119a-1         Hydrophilicity         91-97           9343.         119a-1         Hydrophilicity         99-113           9344.         119a-1         Hydrophilicity         121-127           9346.         119a-1         Hydrophilicity         130-140           9347.         119a-1         Hydrophilicity         147-149           9348.         119a-1         Hydrophilicity         156-161           9349.         119a-1         Hydrophilicity         179-186           9350.         119a-1         Hydrophilicity         202-208           9351.         119a-1         Hydrophilicity         232-241	9333.	119a-1	Antigenic Index	356-366
9336.       119a-1       Antigenic Index       398-401         9337.       119a-1       Antigenic Index       407-412         9338.       119a-1       Antigenic Index       415-423         9339.       119a-1       Hydrophilicity       23-42         9340.       119a-1       Hydrophilicity       45-56         9341.       119a-1       Hydrophilicity       81-87         9342.       119a-1       Hydrophilicity       91-97         9343.       119a-1       Hydrophilicity       99-113         9344.       119a-1       Hydrophilicity       121-127         9345.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9334.	119a-1	Antigenic Index	376-378
9337.       119a-1       Antigenic Index       407-412         9338.       119a-1       Antigenic Index       415-423         9339.       119a-1       Hydrophilicity       23-42         9340.       119a-1       Hydrophilicity       45-56         9341.       119a-1       Hydrophilicity       63-79         9342.       119a-1       Hydrophilicity       91-97         9343.       119a-1       Hydrophilicity       99-113         9344.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9335.	119a-1	Antigenic Index	385-393
9338.       119a-1       Antigenic Index       415-423         9339.       119a-1       Hydrophilicity       23-42         9340.       119a-1       Hydrophilicity       45-56         9341.       119a-1       Hydrophilicity       63-79         9342.       119a-1       Hydrophilicity       81-87         9343.       119a-1       Hydrophilicity       91-97         9344.       119a-1       Hydrophilicity       99-113         9345.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9336.	119a-1	Antigenic Index	398-401
9339.       119a-1       Hydrophilicity       23-42         9340.       119a-1       Hydrophilicity       45-56         9341.       119a-1       Hydrophilicity       63-79         9342.       119a-1       Hydrophilicity       81-87         9343.       119a-1       Hydrophilicity       91-97         9344.       119a-1       Hydrophilicity       99-113         9345.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9337.	119a-1	Antigenic Index	407-412
9340.       119a-1       Hydrophilicity       45-56         9341.       119a-1       Hydrophilicity       63-79         9342.       119a-1       Hydrophilicity       81-87         9343.       119a-1       Hydrophilicity       91-97         9344.       119a-1       Hydrophilicity       99-113         9345.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9338.	119a-1	Antigenic Index	415-423
9341.       119a-1       Hydrophilicity       63-79         9342.       119a-1       Hydrophilicity       81-87         9343.       119a-1       Hydrophilicity       91-97         9344.       119a-1       Hydrophilicity       99-113         9345.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9339.	119a-1	Hydrophilicity	23-42
9342.       119a-1       Hydrophilicity       81-87         9343.       119a-1       Hydrophilicity       91-97         9344.       119a-1       Hydrophilicity       99-113         9345.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9340.	119a-1	Hydrophilicity	45-56
9343.       119a-1       Hydrophilicity       91-97         9344.       119a-1       Hydrophilicity       99-113         9345.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9341.	119a-1	Hydrophilicity	63-79
9344.       119a-1       Hydrophilicity       99-113         9345.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9342.	119a-1	Hydrophilicity	81-87
9345.       119a-1       Hydrophilicity       121-127         9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9343.	119a-1	Hydrophilicity	91-97
9346.       119a-1       Hydrophilicity       130-140         9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9344.	119a-1	Hydrophilicity	99-113
9347.       119a-1       Hydrophilicity       147-149         9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9345.	119a-1	Hydrophilicity	121-127
9348.       119a-1       Hydrophilicity       156-161         9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9346.	119a-1	Hydrophilicity	130-140
9349.       119a-1       Hydrophilicity       179-186         9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9347.	119a-1	Hydrophilicity	147-149
9350.       119a-1       Hydrophilicity       190-195         9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9348.	119a-1	Hydrophilicity	156-161
9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9349.	119a-1	Hydrophilicity	179-186
9351.       119a-1       Hydrophilicity       202-208         9352.       119a-1       Hydrophilicity       232-241	9350.	119a-1	Hydrophilicity	190-195
	9351.	119a-1	Hydrophilicity	202-208
9353. 119a-1 Hydrophilicity 244-247	9352.	119a-1	Hydrophilicity	232-241
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9382.	120a-1	Hydrophilicity	3-5
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9400.         100ng-1         AMPHI         144-151           9401.         100ng-1         AMPHI         156-158           9402.         100ng-1         AMPHI         188-193           9403.         100ng-1         AMPHI         207-210           9404.         100ng-1         AMPHI         213-218           9405.         100ng-1         AMPHI         228-232           9406.         100ng-1         AMPHI         239-244           9407.         100ng-1         AMPHI         248-260           9408.         100ng-1         AMPHI         280-286           9409.         100ng-1         AMPHI         280-286           9410.         100ng-1         AMPHI         280-286           9410.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         326-329           9414.         100ng-1         AMPHI         37-339           9415.         100ng-1         Antigenic Index         38-92           9416.         100ng-1         Antigenic Index         88-85           9417.         100ng-1         Antig	9398.	100ng-1	AMPHI	108-110
9401.         100ng-1         AMPHI         188-193           9402.         100ng-1         AMPHI         188-193           9403.         100ng-1         AMPHI         207-210           9404.         100ng-1         AMPHI         213-218           9405.         100ng-1         AMPHI         228-232           9406.         100ng-1         AMPHI         239-244           9407.         100ng-1         AMPHI         269-273           9408.         100ng-1         AMPHI         269-273           9409.         100ng-1         AMPHI         296-308           9410.         100ng-1         AMPHI         317-323           9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         AMPHI         37-339           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         38-92           9417.         100ng-1         Antigenic Index         38-92           9418.         100ng-1         <	9399.	100ng-1	АМРНІ	133-15
9402.         100ng-1         AMPHI         207-210           9403.         100ng-1         AMPHI         207-210           9404.         100ng-1         AMPHI         213-218           9406.         100ng-1         AMPHI         228-232           9406.         100ng-1         AMPHI         239-244           9407.         100ng-1         AMPHI         248-260           9408.         100ng-1         AMPHI         280-286           9410.         100ng-1         AMPHI         296-308           9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         317-323           9413.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         89-92           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         135-144           9420.         100ng-1 <td>9400.</td> <td>100ng-1</td> <td>AMPHI</td> <td>144-151</td>	9400.	100ng-1	AMPHI	144-151
9403.         100ng-1         AMPHI         207-210           9404.         100ng-1         AMPHI         213-218           9405.         100ng-1         AMPHI         228-232           9406.         100ng-1         AMPHI         239-244           9407.         100ng-1         AMPHI         248-260           9408.         100ng-1         AMPHI         269-273           9409.         100ng-1         AMPHI         296-308           9410.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         372-377           9414.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         89-92           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         148-157           9421.         10	9401.	100ng-1	AMPHI	156-158
9404.         100ng-1         AMPHI         213-218           9405.         100ng-1         AMPHI         228-232           9406.         100ng-1         AMPHI         239-244           9407.         100ng-1         AMPHI         248-260           9408.         100ng-1         AMPHI         269-273           9409.         100ng-1         AMPHI         280-286           9410.         100ng-1         AMPHI         317-323           9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         AMPHI         37-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         88-85           9417.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.	9402.	100ng-1	AMPHI	188-193
9405.         100ng-1         AMPHI         228-232           9406.         100ng-1         AMPHI         239-244           9407.         100ng-1         AMPHI         248-260           9408.         100ng-1         AMPHI         269-273           9409.         100ng-1         AMPHI         296-308           9410.         100ng-1         AMPHI         317-323           9411.         100ng-1         AMPHI         326-329           9412.         100ng-1         AMPHI         337-339           9413.         100ng-1         AMPHI         372-377           9415.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         68-85           9417.         100ng-1         Antigenic Index         88-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         211-218           942	9403.	100ng-1	АМРНІ	207-210
9406.         100ng-1         AMPHI         239-244           9407.         100ng-1         AMPHI         248-260           9408.         100ng-1         AMPHI         269-273           9409.         100ng-1         AMPHI         280-286           9410.         100ng-1         AMPHI         296-308           9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         68-85           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         148-157           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231      <	9404.	100ng-1	АМРНІ	213-218
9407.         100ng-1         AMPHI         248-260           9408.         100ng-1         AMPHI         269-273           9409.         100ng-1         AMPHI         280-286           9410.         100ng-1         AMPHI         296-308           9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         88-85           9417.         100ng-1         Antigenic Index         88-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         220-231 <t< td=""><td>9405.</td><td>100ng-1</td><td>AMPHI</td><td>228-232</td></t<>	9405.	100ng-1	AMPHI	228-232
9408.         100ng-1         AMPHI         269-273           9409.         100ng-1         AMPHI         280-286           9410.         100ng-1         AMPHI         296-308           9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         88-92           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         148-157           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         185-189           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         220-231 </td <td>9406.</td> <td>100ng-1</td> <td>AMPHI</td> <td>239-244</td>	9406.	100ng-1	AMPHI	239-244
9409.         100ng-1         AMPHI         280-286           9410.         100ng-1         AMPHI         296-308           9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         372-377           9414.         100ng-1         Antigenic Index         23-26           9415.         100ng-1         Antigenic Index         68-85           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         185-189           9421.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index <td< td=""><td>9407.</td><td>100ng-1</td><td>AMPHI</td><td>248-260</td></td<>	9407.	100ng-1	AMPHI	248-260
9410.         100ng-1         AMPHI         296-308           9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         372-377           9414.         100ng-1         Antigenic Index         23-26           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         89-92           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index	9408.	100ng-1	АМРНІ	269-273
9411.         100ng-1         AMPHI         317-323           9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         Antigenic Index         23-26           9415.         100ng-1         Antigenic Index         68-85           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         185-189           9422.         100ng-1         Antigenic Index         199-206           9423.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Ind	9409.	100ng-1	АМРНІ	280-286
9412.         100ng-1         AMPHI         326-329           9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         88-95           9417.         100ng-1         Antigenic Index         98-121           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         185-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         199-206           9423.         100ng-1         Antigenic Index         211-218           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         268-274           9428.         100ng-1         Antigenic I	9410.	100ng-1	AMPHI	296-308
9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         68-85           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         268-274           9428.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         An	9411.	100ng-1	AMPHI	317-323
9413.         100ng-1         AMPHI         337-339           9414.         100ng-1         AMPHI         372-377           9415.         100ng-1         Antigenic Index         23-26           9416.         100ng-1         Antigenic Index         68-85           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         268-274           9428.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         An	9412.	100ng-1	АМРНІ	326-329
9415.         100ng-1         Antigenic Index         68-85           9416.         100ng-1         Antigenic Index         68-85           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         268-274           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         Antigenic Index         36-330           9432.         100ng-1<	9413.	100ng-1	AMPHI	337-339
9416.         100ng-1         Antigenic Index         68-85           9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         268-274           9428.         100ng-1         Antigenic Index         288-297           9430.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         Antigenic Index         341-354           9432.         100ng-1         Antigenic Index         361-364           9433.         100ng	9414.	100ng-1	AMPHI	372-377
9417.         100ng-1         Antigenic Index         89-92           9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         268-274           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         341-354           9431.         100ng-1         Antigenic Index         361-364           9433.         100ng-1         Antigenic Index         373-387           9434.         100	9415.	100ng-1	Antigenic Index	23-26
9418.         100ng-1         Antigenic Index         98-121           9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         Antigenic Index         361-364           9432.         100ng-1         Antigenic Index         373-387           9434.         100ng-1         Antigenic Index         395-405           9435.         1	9416.	100ng-1	Antigenic Index	68-85
9419.         100ng-1         Antigenic Index         135-144           9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         36-330           9431.         100ng-1         Antigenic Index         361-364           9432.         100ng-1         Antigenic Index         373-387           9434.         100ng-1         Antigenic Index         395-405           9435.         100ng-1         Hydrophilicity         70-85           9436.         100n	9417.	100ng-1	Antigenic Index	89-92
9420.         100ng-1         Antigenic Index         148-157           9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         Antigenic Index         361-364           9432.         100ng-1         Antigenic Index         373-387           9434.         100ng-1         Antigenic Index         395-405           9435.         100ng-1         Hydrophilicity         70-85           9436.         100ng-1         Hydrophilicity         111-121           9438.         100n	9418.	100ng-1	Antigenic Index	98-121
9421.         100ng-1         Antigenic Index         166-176           9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         361-334           9431.         100ng-1         Antigenic Index         361-364           9432.         100ng-1         Antigenic Index         373-387           9434.         100ng-1         Antigenic Index         395-405           9435.         100ng-1         Hydrophilicity         70-85           9436.         100ng-1         Hydrophilicity         111-121           9438.         100ng-1         Hydrophilicity         135-144           9439.         100ng	9419.	100ng-1	Antigenic Index	135-144
9422.         100ng-1         Antigenic Index         185-189           9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         268-274           9428.         100ng-1         Antigenic Index         288-297           9430.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         Antigenic Index         341-354           9432.         100ng-1         Antigenic Index         361-364           9433.         100ng-1         Antigenic Index         373-387           9434.         100ng-1         Antigenic Index         395-405           9435.         100ng-1         Hydrophilicity         70-85           9436.         100ng-1         Hydrophilicity         111-121           9438.         100ng-1         Hydrophilicity         135-144           9439.         100ng-1         Hydrophilicity         148-156           9440.         100ng-	9420.	100ng-1	Antigenic Index	148-157
9423.         100ng-1         Antigenic Index         199-206           9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         341-354           9431.         100ng-1         Antigenic Index         361-364           9432.         100ng-1         Antigenic Index         373-387           9434.         100ng-1         Antigenic Index         395-405           9435.         100ng-1         Hydrophilicity         70-85           9436.         100ng-1         Hydrophilicity         98-109           9437.         100ng-1         Hydrophilicity         111-121           9438.         100ng-1         Hydrophilicity         135-144           9439.         100ng-1         Hydrophilicity         148-156           9440.         100ng-1<	9421.	100ng-1	Antigenic Index	166-176
9424.         100ng-1         Antigenic Index         211-218           9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         341-354           9431.         100ng-1         Antigenic Index         361-364           9432.         100ng-1         Antigenic Index         373-387           9433.         100ng-1         Antigenic Index         395-405           9435.         100ng-1         Hydrophilicity         70-85           9436.         100ng-1         Hydrophilicity         98-109           9437.         100ng-1         Hydrophilicity         111-121           9438.         100ng-1         Hydrophilicity         135-144           9439.         100ng-1         Hydrophilicity         148-156           9440.         100ng-1         Hydrophilicity         166-176	9422.	100ng-1	Antigenic Index	185-189
9425.         100ng-1         Antigenic Index         220-231           9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         Antigenic Index         361-364           9432.         100ng-1         Antigenic Index         361-364           9433.         100ng-1         Antigenic Index         373-387           9434.         100ng-1         Antigenic Index         395-405           9435.         100ng-1         Hydrophilicity         70-85           9436.         100ng-1         Hydrophilicity         98-109           9437.         100ng-1         Hydrophilicity         111-121           9438.         100ng-1         Hydrophilicity         135-144           9439.         100ng-1         Hydrophilicity         148-156           9440.         100ng-1         Hydrophilicity         166-176	9423.	100ng-1	Antigenic Index	199-206
9426.         100ng-1         Antigenic Index         237-244           9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         306-330           9430.         100ng-1         Antigenic Index         341-354           9431.         100ng-1         Antigenic Index         361-364           9432.         100ng-1         Antigenic Index         373-387           9433.         100ng-1         Antigenic Index         395-405           9434.         100ng-1         Hydrophilicity         70-85           9435.         100ng-1         Hydrophilicity         98-109           9437.         100ng-1         Hydrophilicity         111-121           9438.         100ng-1         Hydrophilicity         135-144           9439.         100ng-1         Hydrophilicity         148-156           9440.         100ng-1         Hydrophilicity         166-176	9424.	100ng-1	Antigenic Index	211-218
9427.         100ng-1         Antigenic Index         250-264           9428.         100ng-1         Antigenic Index         268-274           9429.         100ng-1         Antigenic Index         288-297           9430.         100ng-1         Antigenic Index         306-330           9431.         100ng-1         Antigenic Index         341-354           9432.         100ng-1         Antigenic Index         361-364           9433.         100ng-1         Antigenic Index         373-387           9434.         100ng-1         Antigenic Index         395-405           9435.         100ng-1         Hydrophilicity         70-85           9436.         100ng-1         Hydrophilicity         98-109           9437.         100ng-1         Hydrophilicity         111-121           9438.         100ng-1         Hydrophilicity         135-144           9439.         100ng-1         Hydrophilicity         148-156           9440.         100ng-1         Hydrophilicity         166-176	9425.	100ng-1	Antigenic Index	220-231
9428.       100ng-1       Antigenic Index       268-274         9429.       100ng-1       Antigenic Index       288-297         9430.       100ng-1       Antigenic Index       306-330         9431.       100ng-1       Antigenic Index       341-354         9432.       100ng-1       Antigenic Index       361-364         9433.       100ng-1       Antigenic Index       373-387         9434.       100ng-1       Antigenic Index       395-405         9435.       100ng-1       Hydrophilicity       70-85         9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9426.	100ng-1	Antigenic Index	237-244
9429.       100ng-1       Antigenic Index       288-297         9430.       100ng-1       Antigenic Index       306-330         9431.       100ng-1       Antigenic Index       341-354         9432.       100ng-1       Antigenic Index       361-364         9433.       100ng-1       Antigenic Index       373-387         9434.       100ng-1       Antigenic Index       395-405         9435.       100ng-1       Hydrophilicity       70-85         9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9427.	100ng-1		250-264
9430.       100ng-1       Antigenic Index       306-330         9431.       100ng-1       Antigenic Index       341-354         9432.       100ng-1       Antigenic Index       361-364         9433.       100ng-1       Antigenic Index       373-387         9434.       100ng-1       Antigenic Index       395-405         9435.       100ng-1       Hydrophilicity       70-85         9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9428.	100ng-1	Antigenic Index	268-274
9431.       100ng-1       Antigenic Index       341-354         9432.       100ng-1       Antigenic Index       361-364         9433.       100ng-1       Antigenic Index       373-387         9434.       100ng-1       Antigenic Index       395-405         9435.       100ng-1       Hydrophilicity       70-85         9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9429.	100ng-1	Antigenic Index	288-297
9432.       100ng-1       Antigenic Index       361-364         9433.       100ng-1       Antigenic Index       373-387         9434.       100ng-1       Antigenic Index       395-405         9435.       100ng-1       Hydrophilicity       70-85         9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9430.	100ng-1	Antigenic Index	306-330
9433.       100ng-1       Antigenic Index       373-387         9434.       100ng-1       Antigenic Index       395-405         9435.       100ng-1       Hydrophilicity       70-85         9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9431.	100ng-1	Antigenic Index	341-354
9434.       100ng-1       Antigenic Index       395-405         9435.       100ng-1       Hydrophilicity       70-85         9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9432.	100ng-1		361-364
9435.       100ng-1       Hydrophilicity       70-85         9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9433.	100ng-1	Antigenic Index	
9436.       100ng-1       Hydrophilicity       98-109         9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9434.	100ng-1	Antigenic Index	395-405
9437.       100ng-1       Hydrophilicity       111-121         9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9435.	100ng-1	Hydrophilicity	70-85
9438.       100ng-1       Hydrophilicity       135-144         9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9436.	100ng-1	Hydrophilicity	98-109
9439.       100ng-1       Hydrophilicity       148-156         9440.       100ng-1       Hydrophilicity       166-176	9437.	100ng-1	Hydrophilicity	111-121
9440. 100ng-1 Hydrophilicity 166-176	9438.	100ng-1	Hydrophilicity	135-144
	9439.	100ng-1	Hydrophilicity	148-156
9441.   100ng-1   Hydrophilicity   200-206	9440.	100ng-1	Hydrophilicity	166-176
	9441.	100ng-1	Hydrophilicity	200-206

9442.	100ng-1	Hydrophilicity	211-218
9443	100ng-1	Hydrophilicity	220-229
9444.	100ng-1	Hydrophilicity	237-244
9445.	100ng-1	Hydrophilicity	250-264
9446	100ng-1	Hydrophilicity	268-274
9447	100ng-1	Hydrophilicity	289-297
9448	100ng-1	Hydrophilicity	306-319
9449.	100ng-1	Hydrophilicity	323-329
9450.	100ng-1	Hydrophilicity	346-349
9451.	100ng-1	Hydrophilicity	351-354
9452.	100ng-1	Hydrophilicity	373-387
9453.	100ng-1	Hydrophilicity	395-405
9454.	101ng-1	AMPHI	7-10
9455.	101ng-1	АМРНІ	23-26
9456.	101ng-1	АМРНІ	32-35
9457.	101ng-1	AMPHI	37-39
9458.	101ng-1	АМРНІ	50-54
9459.	101ng-1	АМРНІ	68-81
9460.	101ng-1	AMPHI	97-103
9461.	101ng-1	АМРНІ	115-119
9462.	101ng-1	АМРНІ	130-134
9463.	101ng-1	АМРНІ	142-146
9464.	101ng-1	АМРНІ	148-152
9465.	101ng-1	АМРНІ	216-218
9466.	101ng-1	AMPHI	237-243
9467.	101ng-1	АМРНІ	320-323
9468.	101ng-1	AMPHI	329-332
9469.	101ng-1	AMPHI	351-354
9470.	101ng-1	АМРНІ	358-363
9471.	101ng-1	Antigenic Index	6-9
9472.	101ng-1	Antigenic Index	37-45
9473.	101ng-1	Antigenic Index	78-86
9474.	101ng-1	Antigenic Index	125-133
9475.	101ng-1	Antigenic Index	135-143
9476.	101ng-1	Antigenic Index	150-158
9477.	101ng-1	Antigenic Index	165-171
9478.	101ng-1	Antigenic Index	176-186
9479.	101ng-1	Antigenic Index	192-224
9480.	101ng-1	Antigenic Index	236-251
9481.	101ng-1	Antigenic Index	257-264
9482.	101ng-1	Antigenic Index	290-298
9483.	101ng-1	Antigenic Index	311-313
9484.	101ng-1	Antigenic Index	320-325
9485.	101ng-1	Antigenic Index	350-356
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9486.	101ng-1	Antigenic Index	362-371
9487.	101ng-1	Hydrophilicity	6-9
9488.	101ng-1	Hydrophilicity	37-45
9489.	101ng-1	Hydrophilicity	97-85
9490.	101ng-1	Hydrophilicity	125-133
9491.	101ng-1	Hydrophilicity	135-143
9492.	101ng-1	Hydrophilicity	151-157
9493.	101ng-1	Hydrophilicity	165-171
9494.	101ng-1	Hydrophilicity	176-185
9495.	101ng-1	Hydrophilicity	192-207
9496.	101ng-1	Hydrophilicity	215-222
9497.	101ng-1	Hydrophilicity	239-242
9498.	101ng-1	Hydrophilicity	244-251
9499.	101ng-1	Hydrophilicity	293-296
9500	101ng-1	Hydrophilicity	320-325
9501.	101ng-1	Hydrophilicity	350-353
9502.	101ng-1	Hydrophilicity	368-371
9503.	102ng-1	АМРНІ	4-12
9504.	102ng-1	AMPHI	17-21
9505.	102ng-1	АМРНІ	25-29
9506.	102ng-1	АМРНІ	33-37
9507.	102ng-1	AMPHI	53-59
9508.	102ng-1	AMPHI	105-113
9509.	102ng-1	AMPHI	115-125
9510.	102ng-1	Antigenic Index	34-45
9511.	102ng-1	Antigenic Index	47-49
9512.	102ng-1	Antigenic Index	58-61
9513.	102ng-1	Antigenic Index	76-81
9514.	102ng-1	Antigenic Index	106-118
9515.	102ng-1	Hydrophilicity	35-45
9516.	102ng-1	Hydrophilicity	106-109
9517.	103ng-1	АМРНІ	14-16
9518.	103ng-1	АМРНІ	21-30
9519.	103ng-1	АМРНІ	39-42
9520.	103ng-1	AMPHI	53-58
9521.	103ng-1	AMPHI	66-69
9522.	103ng-1	AMPHI	76-78
9523.	103ng-1	AMPHI	80-83
9524.	103ng-1	AMPHI	100-106
9525.	103ng-1	AMPHI	108-114
9526.	103ng-1	AMPHI	117-127
9527.	103ng-1	AMPHI	129-137
9528.	103ng-1	AMPHI	177-183
9528.	103ng-1	AMPHI	193-195
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9530.	103ng-1	AMPHI	199-206
9531.	103ng-1	AMPHI	211-214
9532.	103ng-1	Antigenic Index	1-3
9533.	103ng-1	Antigenic Index	18-20
9534.	103ng-1	Antigenic Index	26-28
9535.	103ng-1	Antigenic Index	37-40
9536.	103ng-1	Antigenic Index	50-57
9537.	103ng-1	Antigenic Index	73-79
9538.	103ng-1	Antigenic Index	107-116
9539.	103ng-1	Antigenic Index	128-132
9540.	103ng-1	Antigenic Index	146-148
9541.	103ng-1	Antigenic Index	160-166
9542.	103ng-1	Antigenic Index	191-200
9543.	103ng-1	Hydrophilicity	75-78
9544.	103ng-1	Hydrophilicity	107-113
9545.	103ng-1	Hydrophilicity	194-197
9546.	104ng-1	AMPHI	14-16
9547.	104ng-1	AMPHI	29-35
9548.	104ng-1	AMPHI	59-61
9549.	104ng-1	AMPHI	91-97
9550.	104ng-1	AMPHI	109-112
9551.	104ng-1	АМРНІ	138-140
9552.	104ng-1	AMPHI	145-158
9553.	104ng-1	AMPHI	177-179
9554.	104ng-1	АМРНІ	206-215
9555.	104ng-1	AMPHI	235-245
9556.	104ng-1	AMPHI	248-266
9557.	104ng-1	AMPHI	272-276
9558.	104ng-1	AMPHI	280-286
9559.	104ng-1	AMPHI	293-298
9560.	104ng-1	Antigenic Index	1-6
9561.	104ng-1	Antigenic Index	58-70
9562.	104ng-1	Antigenic Index	98-100
9563.	104ng-1	Antigenic Index	120-126
9564.	104ng-1	Antigenic Index	145-149
9565.	104ng-1	Antigenic Index	211-216
9566.	104ng-1	Antigenic Index	234-239
9567.	104ng-1	Antigenic Index	243-247
9568.	104ng-1	Antigenic Index	275-282
9569.	104ng-1	Antigenic Index	299-307
9570.	104ng-1	Hydrophilicity	1-5
9571.	104ng-1	Hydrophilicity	60-68
9572.	104ng-1	Hydrophilicity	120-126
9573.	104ng-1	Hydrophilicity	146-149

9574.	104ng-1	Hydrophilicity	243-247
9575.	104ng-1	Hydrophilicity	299-307
9576.	105ng-1	AMPHI	7-10
9577.	105ng-1	AMPHI	16-18
9578.	105ng-1	AMPHI	31-34
9579.	105ng-1	AMPHI	49-56
9580.	105ng-1	AMPHI	74-78
9581.	105ng-1	AMPHI	82-90
9582.	105ng-1	AMPHI	95-97
9583.	105ng-1	AMPHI	103-105
9584.	105ng-1	AMPHI	107-109
9585.	105ng-1	AMPHI	121-127
9586.	105ng-1	AMPHI	134-136
9587.	105ng-1	AMPHI	152-158
9588.	105ng-1	AMPHI	160-164
9589.		AMPHI	168-170
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9590.	105ng-1	AMPHI	182-185 189-191
9591.	105ng-1	AMPHI	
9592.	105ng-1	AMPHI	197-215
9593.	105ng-1	AMPHI	221-224
9594.	105ng-1	AMPHI	239-243
9595.	105ng-1	AMPHI	247-253
9596.	105ng-1	AMPHI	265-271
9597.	105ng-1	AMPHI	275-277
9598.	105ng-1	Antigenic Index	5-15
9599.	105ng-1	Antigenic Index	17-27
9600.	105ng-1	Antigenic Index	30-32
9601.	105ng-1	Antigenic Index	40-43
9602.	105ng-1	Antigenic Index	45-68
9603.	105ng-1	Antigenic Index	71-81
9604.	105ng-1	Antigenic Index	88-90
9605.	105ng-1	Antigenic Index	98-113
9606.	105ng-1	Antigenic Index	117-121
9607.	105ng-1	Antigenic Index	132-135
9608.	105ng-1	Antigenic Index	137-145
9609.	105ng-1	Antigenic Index	148-163
9610.	105ng-1	Antigenic Index	165-190
9611.	105ng-1	Antigenic Index	199-214
9612.	105ng-1	Antigenic Index	229-246
9613.	105ng-1	Antigenic Index	253-259
9614.	105ng-1	Antigenic Index	271-274
9615.	105ng-1	Hydrophilicity	5-15
9616.	105ng-1	Hydrophilicity	17-24
9617.	105ng-1	Hydrophilicity	48-66

9618.	105ng-1	Hydrophilicity	74-76
9619.		Hydrophilicity	78-80
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9623.	105ng-1	Hydrophilicity	137-141
9624.	105ng-1	Hydrophilicity	149-163
9625.	105ng-1	Hydrophilicity	170-176
9626.	105ng-1	Hydrophilicity	178-190
9627.	105ng-1	Hydrophilicity	199-201
9628.	105ng-1	Hydrophilicity	208-210
9629.	105ng-1	Hydrophilicity	232-246
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9631.	106ng-1	AMPHI	21-24
9632.	106ng-1	AMPHI	27-32
9633.	106ng-1	AMPHI	42-45
9634.	106ng-1	АМРНІ	56-67
9635.	106ng-1	АМРНІ	92-94
9636.	106ng-1	AMPHI	126-129
9637.	106ng-1	AMPHI	134-136
9638.	106ng-1	AMPHI	142-144
9639.	106ng-1	АМРНІ	150-154
9640.	106ng-1	AMPHI	167-173
9641.	106ng-1	Antigenic Index	9-11
9642.	106ng-1	Antigenic Index	27-29
9643.	106ng-1	Antigenic Index	35-69
9644.	106ng-1	Antigenic Index	94-103
9645.	106ng-1	Antigenic Index	109-116
9646.	106ng-1	Antigenic Index	121-132
9647.	106ng-1	Antigenic Index	145-163
9648.	106ng-1	Antigenic Index	166-175
9649.	106ng-1	Antigenic Index	180-192
9650.	106ng-1	Antigenic Index	197-199
9651.	106ng-1	Hydrophilicity	27-29
9652.	106ng-1	Hydrophilicity	35-46
9653.	106ng-1	Hydrophilicity	53-59
9654.	106ng-1	Hydrophilicity	64-69
9655.	106ng-1	Hydrophilicity	95-103
9656.	106ng-1	Hydrophilicity	112-116
9657.	106ng-1	Hydrophilicity	123-132
9658.	106ng-1	Hydrophilicity	148-150
9659.	106ng-1	Hydrophilicity	152-161
9660.	106ng-1	Hydrophilicity	169-172
9661.	106ng-1	Hydrophilicity	188-190

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9663.	108ng-1	AMPHI	22-34
9664.	108ng-1	AMPHI	44-46
9665.	108ng-1	AMPHI	73-77
9666.	108ng-1	AMPHI	87-102
9667.	108ng-1	AMPHI	109-112
9668.	108ng-1	AMPHI	118-129
9669.	108ng-1	AMPHI	133-138
9670.	108ng-1	AMPHI	146-150
9671.	108ng-1	AMPHI	157-159
9672.	108ng-1	Antigenic Index	18-40
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9674.	108ng-1	Antigenic Index	56-70
9675.	108ng-1	Antigenic Index	73-82
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9677.	108ng-1	Antigenic Index	99-116
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9680.	108ng-1	Antigenic Index	160-162
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9682.	108ng-1	Antigenic Index	175-181
9683.	108ng-1	Hydrophilicity	19-29
9684.	108ng-1	Hydrophilicity	34-36
9685.	108ng-1	Hydrophilicity	38-40
9686.	108ng-1	Hydrophilicity	43-46
9687.	108ng-1	Hydrophilicity	57-70
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9689.	108ng-1	Hydrophilicity	85-97
9690.	108ng-1	Hydrophilicity	99-109
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9692.	108ng-1	Hydrophilicity	150-155
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9694.	108ng-1	Hydrophilicity	176-181
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9703.	109ng-1	AMPHI	189-192
9704.	109ng-1	АМРНІ	211-213
9705.	109ng-1	AMPHI	228-232

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9712.	109ng-1	Antigenic Index	226-231
9713.	109ng-1	Antigenic Index	247-254
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9721.	146ng-1	AMPHI	19-21
9722.	146ng-1	AMPHI	24-30
9723.	146ng-1	AMPHI	39-46
9724.	146ng-1	AMPHI	51-53
9725.	146ng-1	AMPHI	70-84
9726.	146ng-1	AMPHI	111-120
9727.	146ng-1	AMPHI	132-135
9728.	146ng-1	AMPHI	149-151
9729.	146ng-1	AMPHI	153-158
9730.	146ng-1	AMPHI	183-201
9731.	146ng-1	AMPHI	204-207
9732.	146ng-1	AMPHI	241-254
9733.	146ng-1	AMPHI	277-280
9734.	146ng-1	AMPHI	301-303
9735.	146ng-1	AMPHI	318-324
9736.	146ng-1	АМРНІ	352-355
9737.	146ng-1	Antigenic Index	1-25
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9743.	146ng-1	Antigenic Index	140-148
9744.	146ng-1	Antigenic Index	186-219
9745.	146ng-1	Antigenic Index	221-242
9746.	146ng-1	Antigenic Index	249-255
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9749.	146ng-1	Antigenic Index	300-320

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9756.	146ng-1	Hydrophilicity	142-147
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9758.	146ng-1	Hydrophilicity	198-219
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9761.	146ng-1	Hydrophilicity	249-255
9762.	146ng-1	Hydrophilicity	266-281
9763.	146ng-1	Hydrophilicity	291-293
9764.	146ng-1	Hydrophilicity	301-308
9765.	146ng-1	Hydrophilicity	314-320
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9767.	146ng-1	Hydrophilicity	349-364
9768.	146ng-1	Hydrophilicity	367-375
9769.	147ng-1	АМРНІ	6-13
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9772.	147ng-1	АМРНІ	54-56
9773.	147ng-1	AMPHI	80-82
9774.	147ng-1	AMPHI	84-86
9775.	147ng-1	AMPHI	99-102
9776.	147ng-1	AMPHI	106-114
9777.	147ng-1	AMPHI	132-137
9778.	147ng-1	AMPHI	159-167
9779.	147ng-1	AMPHI	175-188
9780.	147ng-1	AMPHI	200-219
9781.	147ng-1	AMPHI	245-254
9782.	147ng-1	AMPHI	263-265
9783.	147ng-1	AMPHI	267-269
9784.	147ng-1	Antigenic Index	5-14
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9786.	147ng-1	Antigenic Index	67-80
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9788.	147ng-1	Antigenic Index	94-101
9789.	147ng-1	Antigenic Index	104-118
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9791.	147ng-1	Antigenic Index	175178
9792.	147ng-1	Antigenic Index	190-197
9793.	147ng-1	Antigenic Index	199-205
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9794.	147ng-1	Antigenic Index	209-213
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9808.	147ng-1	Hydrophilicity	190-197
9809.	147ng-1	Hydrophilicity	199-204
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9815.	147ng-1	Hydrophilicity	273-281
9816.	147ng-1	Hydrophilicity	288-291
9817.	lng-1	AMPHI	9-17
9818.	lng-1	AMPHI	53-56
9819.	lng-l	AMPHI	83-85
9820.	1ng-1	АМРНІ	162-169
9821.	lng-1	AMPHI	175-193
9822.	lng-1	AMPHI	371-374
9823.	1ng-1	AMPHI	378-382
9824.	lng-1	AMPHI	391-394
9825.	Ing-1	AMPHI	455-463
9826.	1ng-1	AMPHI	493-495
9827.	1ng-1	AMPHI	545-551
9828.	1ng-1	AMPHI	649-665
9829.	lng-l	АМРНІ	676-678
9830.	lng-1	АМРНІ	698-701
9831.	lng-l	AMPHI	731-739
9832.	lng-1	АМРНІ	749-752
9833.	lng-l	AMPHI	763-767
9834.	1ng-1	AMPHI	771-775
9835.	1ng-1	AMPHI	895-899
9836.	1ng-1	AMPHI	924-929
9837.	1ng-1	AMPHI	931-925

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1115-1	ANADLII	1003-1011
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lng-l		1244-1247
lng-l	AMPHI	1250-1252
lng-l	АМРНІ	1270-1283
1ng-1	AMPHI	1312-1322
lng-l	AMPHI	1389-1392
1ng-1	АМРНІ	1424-1427
lng-l	Antigenic Index	1-23
lng-l	Antigenic Index	39-42
lng-1	Antigenic Index	53-64
1ng-1	Antigenic Index	66-87
lng-l	Antigenic Index	95-101
ing-1	Antigenic Index	115-120
1ng-1	Antigenic Index	124-136
lng-l	Antigenic Index	140-161
1ng-1	Antigenic Index	168-175
lng-1	Antigenic Index	187-218
lng-1	Antigenic Index	229-231
lng-l	Antigenic Index	233-241
1ng-1	Antigenic Index	246-256
		260-270
1ng-1	Antigenic Index	276-279
lng-l	Antigenic Index	293-299
1ng-1	Antigenic Index	301-308
		316-319
		323-329
		334-349
		353-359
		367-375
		383-394
		396-405
		410-415
		426-435
Ing-1	Antigenic Index	441-447
	Ing-I	Ing-I AMPHI Ing-I AMIGENIC Index Ing-I Antigenic Index

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9882.	1ng-1	Antigenic Index	455-467
9883.	lng-1	Antigenic Index	471-488
9884.	lng-1	Antigenic Index	490-501
9885.	Ing-1	Antigenic Index	508-512
9886.	lng-1	Antigenic Index	516-525
9887.	1ng-1	Antigenic Index	530-541
9888	1ng-1	Antigenic Index	546-554
9889.	1ng-1	Antigenic Index	559-566
9890.	lng-l	Antigenic Index	569-619
9891.	lng-l	Antigenic Index	625-629
9892.	1ng-1	Antigenic Index	632-640
9893.	lng-l	Antigenic Index	642-650
9894.	1ng-1	Antigenic Index	655-660
9895.	lng-l	Antigenic Index	662-668
9896.	lng-1	Antigenic Index	671-684
9897.	1ng-1	Antigenic Index	688-690
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9917.	lng-1	Antigenic Index	1042-1051
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9923.	lng-1	Antigenic Index	1226-1249
9924.	lng-1	Antigenic Index	1251-1261
9925.	1ng-1	Antigenic Index	1267-1284
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9931.	lng-l	Antigenic Index	1374-1390
9932.	lng-l	Antigenic Index	1402-1414
9933.	lng-l	Antigenic Index	1421-1430
9934.	lng-l	Antigenic Index	1435-1438
9935.	1ng-1	Antigenic Index	1448-1461
9936.	lng-l	Hydrophilicity	1-23
9937.	1ng-1	Hydrophilicity	40-42
9938.	lng-l	Hydrophilicity	56-64
9939.	lng-l	Hydrophilicity	66-82
9940.	1ng-1	Hydrophilicity	84-86
9941.	lng-1	Hydrophilicity	124-135
9942.	1ng-1	Hydrophilicity	140-150
9943.	lng-l	Hydrophilicity	168-175
9944.	lng-l	Hydrophilicity	189-199
9945.	lng-1	Hydrophilicity	202-217
9946.	1ng-1	Hydrophilicity	237-239
9947.	lng-l	Hydrophilicity	246-252
9948.	lng-1	Hydrophilicity	263-268
9949.	1ng-1	Hydrophilicity	276-279
9950.	lng-l	Hydrophilicity	302-304
9951.	1ng-1	Hydrophilicity	325-327
9952.	1ng-1	Hydrophilicity	335-348
9953.	lng-l	Hydrophilicity	355-359
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9972.	lng-1	Hydrophilicity	674-684
9973.	lng-l	Hydrophilicity	697-703
9974.	1 <u>ng-1</u>	Hydrophilicity	729-731
9975.	1ng-1	Hydrophilicity	737-748
9976.	1 <u>ng</u> -1	Hydrophilicity	752-758
9977.	1ng-1	Hydrophilicity	782-784
9978.	lng-l	Hydrophilicity	792-795
9979.	lng-1	Hydrophilicity	819-825
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9985.	lng-l	Hydrophilicity	927-940
9986.	lng-l	Hydrophilicity	947-953
9987.	1ng-1	Hydrophilicity	961-964
9988.	lng-1	Hydrophilicity	978-990
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9990.	1ng-1	Hydrophilicity	1012-1020
9991.	lng-1	Hydrophilicity	1031-1034
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10108.	10107.	4ng-1	AMPHI	185-193
10109.   4ng-1   AMPHI   242-244   10110.   4ng-1   AMPHI   245-263   10111.   4ng-1   AMPHI   267-287   10112.   4ng-1   Antigenic Index   20-28   10113.   4ng-1   Antigenic Index   35-46   10114.   4ng-1   Antigenic Index   35-46   10115.   4ng-1   Antigenic Index   81-84   10116.   4ng-1   Antigenic Index   90-95   10117.   4ng-1   Antigenic Index   102-116   10118.   4ng-1   Antigenic Index   102-116   10119.   4ng-1   Antigenic Index   125-128   10119.   4ng-1   Antigenic Index   132-154   10120.   4ng-1   Antigenic Index   169-176   10121.   4ng-1   Antigenic Index   178-190   10122.   4ng-1   Antigenic Index   200-208   10123.   4ng-1   Antigenic Index   214-217   10124.   4ng-1   Antigenic Index   221-226   10125.   4ng-1   Antigenic Index   221-226   10125.   4ng-1   Antigenic Index   229-234   10126.   4ng-1   Antigenic Index   229-234   10127.   4ng-1   Antigenic Index   244-252   10128.   4ng-1   Antigenic Index   255-258   10128.   4ng-1   Antigenic Index   260-265   10129.   4ng-1   Antigenic Index   269-278   10130.   4ng-1   Antigenic Index   269-278   10131.   4ng-1   Antigenic Index   283-288   10131.   4ng-1   Hydrophilicity   21-28   10132.   4ng-1   Hydrophilicity   35-46   10133.   4ng-1   Hydrophilicity   35-46   10135.   4ng-1   Hydrophilicity   31-2145   10136.   4ng-1   Hydrophilicity   103-116   10136.   4ng-1   Hydrophilicity   103-116   10136.   4ng-1   Hydrophilicity   103-116   10137.   4ng-1   Hydrophilicity   103-116   10138.   4ng-1   Hydrophilicity   103-116   10139.   4ng-1   Hydrophilicity   223-226   10144.   4ng-1   Hydrophilicity   223-226   10144.   4ng-1   Hydrophilicity   223-226   10144.   4ng-1   Hydrophilicity   244-252   10144.   4ng-1   Hydrophilicity   245-25	10108.		AMPHI	222-229
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10113.	10111.	4ng-1	AMPHI	267-287
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10119.	10117.	4ng-1	Antigenic Index	102-116
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10121.         4ng-1         Antigenic Index         178-190           10122.         4ng-1         Antigenic Index         200-208           10123.         4ng-1         Antigenic Index         214-217           10124.         4ng-1         Antigenic Index         221-226           10125.         4ng-1         Antigenic Index         229-234           10126.         4ng-1         Antigenic Index         244-252           10127.         4ng-1         Antigenic Index         255-258           10128.         4ng-1         Antigenic Index         260-265           10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Hydrophilicity         21-28           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         103-116           10135.         4ng-1         Hydrophilicity         132-145           10137.         4ng-1         Hydrophilicity         148-154           10138.         4ng-1         Hydroph	10119.	4ng-1	Antigenic Index	132-154
10122.         4ng-1         Antigenic Index         200-208           10123.         4ng-1         Antigenic Index         214-217           10124.         4ng-1         Antigenic Index         221-226           10125.         4ng-1         Antigenic Index         229-234           10126.         4ng-1         Antigenic Index         244-252           10127.         4ng-1         Antigenic Index         255-258           10128.         4ng-1         Antigenic Index         260-265           10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Hydrophilicity         21-28           10131.         4ng-1         Hydrophilicity         35-46           10132.         4ng-1         Hydrophilicity         54-72           10133.         4ng-1         Hydrophilicity         90-95           10135.         4ng-1         Hydrophilicity         103-116           10136.         4ng-1         Hydrophilicity         148-154           10138.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrophi	10120.	4ng-1	Antigenic Index	169-176
10123.         4ng-1         Antigenic Index         214-217           10124.         4ng-1         Antigenic Index         221-226           10125.         4ng-1         Antigenic Index         229-234           10126.         4ng-1         Antigenic Index         244-252           10127.         4ng-1         Antigenic Index         255-258           10128.         4ng-1         Antigenic Index         260-265           10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Antigenic Index         283-288           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         103-116           10135.         4ng-1         Hydrophilicity         132-145           10137.         4ng-1         Hydrophilicity         148-154           10138.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrop	10121.	4ng-1	Antigenic Index	178-190
10124.         4ng-1         Antigenic Index         221-226           10125.         4ng-1         Antigenic Index         229-234           10126.         4ng-1         Antigenic Index         244-252           10127.         4ng-1         Antigenic Index         255-258           10128.         4ng-1         Antigenic Index         260-265           10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Antigenic Index         283-288           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         103-116           10135.         4ng-1         Hydrophilicity         132-145           10136.         4ng-1         Hydrophilicity         148-154           10138.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrophilicity         223-226           10142.         4ng-1         Hydroph	10122.	4ng-1	Antigenic Index	200-208
10125.         4ng-1         Antigenic Index         229-234           10126.         4ng-1         Antigenic Index         244-252           10127.         4ng-1         Antigenic Index         255-258           10128.         4ng-1         Antigenic Index         260-265           10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Antigenic Index         283-288           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         90-95           10135.         4ng-1         Hydrophilicity         103-116           10136.         4ng-1         Hydrophilicity         148-154           10137.         4ng-1         Hydrophilicity         169-174           10138.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrophilicity         223-226           10142.         4ng-1         Hydrophili	10123.	4ng-1	Antigenic Index	214-217
10126.         4ng-1         Antigenic Index         244-252           10127.         4ng-1         Antigenic Index         255-258           10128.         4ng-1         Antigenic Index         260-265           10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Antigenic Index         283-288           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         90-95           10135.         4ng-1         Hydrophilicity         103-116           10136.         4ng-1         Hydrophilicity         132-145           10137.         4ng-1         Hydrophilicity         148-154           10138.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrophilicity         223-226           10142.         4ng-1         Hydrophilicity         255-258           10144.         4ng-1         Hydrophilic	10124.	4ng-1	Antigenic Index	221-226
10127.         4ng-1         Antigenic Index         255-258           10128.         4ng-1         Antigenic Index         260-265           10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Antigenic Index         283-288           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         103-116           10135.         4ng-1         Hydrophilicity         132-145           10136.         4ng-1         Hydrophilicity         148-154           10137.         4ng-1         Hydrophilicity         169-174           10139.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrophilicity         244-252           10143.         4ng-1         Hydrophilicity         255-258           10144.         4ng-1         Hydrophilicity         263-265	10125.	4ng-1	Antigenic Index	229-234
10128.         4ng-1         Antigenic Index         260-265           10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Antigenic Index         283-288           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         103-116           10135.         4ng-1         Hydrophilicity         132-145           10136.         4ng-1         Hydrophilicity         148-154           10137.         4ng-1         Hydrophilicity         169-174           10139.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrophilicity         223-226           10142.         4ng-1         Hydrophilicity         255-258           10144.         4ng-1         Hydrophilicity         263-265	10126.	4ng-1	Antigenic Index	244-252
10129.         4ng-1         Antigenic Index         269-278           10130.         4ng-1         Antigenic Index         283-288           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         90-95           10135.         4ng-1         Hydrophilicity         103-116           10136.         4ng-1         Hydrophilicity         132-145           10137.         4ng-1         Hydrophilicity         148-154           10138.         4ng-1         Hydrophilicity         169-174           10139.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrophilicity         223-226           10142.         4ng-1         Hydrophilicity         244-252           10143.         4ng-1         Hydrophilicity         255-258           10144.         4ng-1         Hydrophilicity         263-265	10127.	4ng-1	Antigenic Index	255-258
10130.         4ng-1         Antigenic Index         283-288           10131.         4ng-1         Hydrophilicity         21-28           10132.         4ng-1         Hydrophilicity         35-46           10133.         4ng-1         Hydrophilicity         54-72           10134.         4ng-1         Hydrophilicity         90-95           10135.         4ng-1         Hydrophilicity         103-116           10136.         4ng-1         Hydrophilicity         132-145           10137.         4ng-1         Hydrophilicity         148-154           10138.         4ng-1         Hydrophilicity         178-190           10140.         4ng-1         Hydrophilicity         200-208           10141.         4ng-1         Hydrophilicity         223-226           10142.         4ng-1         Hydrophilicity         244-252           10143.         4ng-1         Hydrophilicity         255-258           10144.         4ng-1         Hydrophilicity         263-265	10128.	4ng-1	Antigenic Index	260-265
10131.       4ng-1       Hydrophilicity       21-28         10132.       4ng-1       Hydrophilicity       35-46         10133.       4ng-1       Hydrophilicity       54-72         10134.       4ng-1       Hydrophilicity       90-95         10135.       4ng-1       Hydrophilicity       103-116         10136.       4ng-1       Hydrophilicity       132-145         10137.       4ng-1       Hydrophilicity       148-154         10138.       4ng-1       Hydrophilicity       169-174         10139.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10129.	4ng-1	Antigenic Index	269-278
10132.       4ng-1       Hydrophilicity       35-46         10133.       4ng-1       Hydrophilicity       54-72         10134.       4ng-1       Hydrophilicity       90-95         10135.       4ng-1       Hydrophilicity       103-116         10136.       4ng-1       Hydrophilicity       132-145         10137.       4ng-1       Hydrophilicity       148-154         10138.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10130.	4ng-1	Antigenic Index	283-288
10133.       4ng-1       Hydrophilicity       54-72         10134.       4ng-1       Hydrophilicity       90-95         10135.       4ng-1       Hydrophilicity       103-116         10136.       4ng-1       Hydrophilicity       132-145         10137.       4ng-1       Hydrophilicity       148-154         10138.       4ng-1       Hydrophilicity       169-174         10139.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10131.	4ng-1	Hydrophilicity	21-28
10134.       4ng-1       Hydrophilicity       90-95         10135.       4ng-1       Hydrophilicity       103-116         10136.       4ng-1       Hydrophilicity       132-145         10137.       4ng-1       Hydrophilicity       148-154         10138.       4ng-1       Hydrophilicity       169-174         10139.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10132.	4ng-1	Hydrophilicity	35-46
10135.       4ng-1       Hydrophilicity       103-116         10136.       4ng-1       Hydrophilicity       132-145         10137.       4ng-1       Hydrophilicity       148-154         10138.       4ng-1       Hydrophilicity       169-174         10139.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10133.	4ng-1	Hydrophilicity	54-72
10136.       4ng-1       Hydrophilicity       132-145         10137.       4ng-1       Hydrophilicity       148-154         10138.       4ng-1       Hydrophilicity       169-174         10139.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10134	4ng-1	Hydrophilicity	90-95
10137.       4ng-1       Hydrophilicity       148-154         10138.       4ng-1       Hydrophilicity       169-174         10139.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10135.	4ng-1	Hydrophilicity	103-116
10138.       4ng-1       Hydrophilicity       169-174         10139.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10136.	4ng-1	Hydrophilicity	132-145
10139.       4ng-1       Hydrophilicity       178-190         10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10137.	4ng-1	Hydrophilicity	148-154
10140.       4ng-1       Hydrophilicity       200-208         10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10138.	4ng-1	Hydrophilicity	169-174
10141.       4ng-1       Hydrophilicity       223-226         10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10139.	4ng-1	Hydrophilicity	178-190
10142.       4ng-1       Hydrophilicity       244-252         10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10140.	4ng-1	Hydrophilicity	200-208
10143.       4ng-1       Hydrophilicity       255-258         10144.       4ng-1       Hydrophilicity       263-265	10141.	4ng-1	Hydrophilicity	223-226
10144. 4ng-1 Hydrophilicity 263-265	10142.	4ng-1	Hydrophilicity	244-252
	10143.	4ng-1	Hydrophilicity	255-258
10145.   4ng-1   Hydrophilicity   271-275	10144.	4ng-1	Hydrophilicity	263-265
	10145.	4ng-1	Hydrophilicity	271-275

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10146.	4ng-1	Hydrophilicity	285-288
10147.	5ng-1	АМРНІ	12-35
10148.	5ng-1	AMPHI	44-55
10149.	5ng-1	AMPHI	77-85
10150.	5ng-1	AMPHI	112-117
10151.	5ng-1	AMPHI	143-151
10152.	5ng-1	АМРНІ	166-169
10153.	5ng-1	AMPHI	171-184
10154.	5ng-1	АМРНІ	190-198
10155.	5ng-1	AMPHI	208-217
10156.	5ng-1	АМРНІ	227-235
10157.	5ng-1	АМРНІ	238-241
10158.	5ng-1	AMPHI	272-282
10159.	5ng-1	Antigenic Index	1-10
10160.	5ng-1	Antigenic Index	18-28
10161.	5ng-1	Antigenic Index	34-54
10162.	5ng-1	Antigenic Index	56-81
10163.	5ng-1	Antigenic Index	90-92
10164.	5ng-1	Antigenic Index	96-104
10165.	5ng-1	Antigenic Index	112-114
10166.	5ng-1	Antigenic Index	118-124
10167.	5ng-1	Antigenic Index	127-129
10168.	5ng-1	Antigenic Index	136-140
10169.	5ng-1	Antigenic Index	146-154
10170.	5ng-1	Antigenic Index	159-167
10171.	5ng-1	Antigenic Index	173-175
10172.	5ng-1	Antigenic Index	178-196
10173.	5ng-1	Antigenic Index	199-204
10174.	5ng-1	Antigenic Index	209-213
10175.	5ng-1	Antigenic Index	219-251
10176.	5ng-1	Antigenic Index	254-280
10177.	5ng-1	Antigenic Index	289-294
10178.	5ng-1	Antigenic Index	298-304
10179.	5ng-1	Hydrophilicity	1-7
10180.	5ng-1	Hydrophilicity	18-28
10181.	5ng-1	Hydrophilicity	34-42
10182.	5ng-1	Hydrophilicity	44-54
10183.	5ng-1	Hydrophilicity	56-81
10184.	5ng-1	Hydrophilicity	96-104
10185.	5ng-1	Hydrophilicity	112-114
10186.	5ng-1	Hydrophilicity	127-129
10187.	5ng-1	Hydrophilicity	136-140
10188.	5ng-1	Hydrophilicity	146-153
10189.	5ng-1	Hydrophilicity	161-164
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10190.	5ng-1	Hydrophilicity	173-175
10191.	5ng-1	Hydrophilicity	178-196
10192.	5ng-1	Hydrophilicity	199-204
10193.	5ng-1	Hydrophilicity	209-213
10194.	5ng-1	Hydrophilicity	222-234
10195.	5ng-1	Hydrophilicity	242-251
10196.	5ng-1	Hydrophilicity	254-264
10 <u>1</u> 97.	5ng-1	Hydrophilicity	266-277
10198.	5ng-1	Hydrophilicity	289-291
10199.	5ng-1	Hydrophilicity	299-304
10200.	6ng-1	АМРНІ	13-15
10201.	6ng-1	АМРНІ	30-47
10202.	6ng-1	AMPHI	49-52
10203.	6ng-1	АМРНІ	77-89
10204.	6ng-1	АМРНІ	107-116
10205.	6ng-1	AMPHI	119-120
10206.	6ng-1	АМРНІ	122-127
10207.	6ng-1	AMPHI	132-138
10208.	6ng-1	AMPHI	153-158
10209.	6ng-1	Antigenic Index	7-16
10210.	6ng-1	Antigenic Index	28-32
10211.	6ng-1	Antigenic Index	42-45
10212.	6ng-1	Antigenic Index	48-59
10213.	6ng-1	Antigenic Index	74-78
10214.	6ng-1	Antigenic Index	81-85
10215.	6ng-1	Antigenic Index	125-128
10216.	6ng-1	Antigenic Index	137-140
10217.	6ng-1	Antigenic Index	154-170
10218.	6ng-1	Hydrophilicity	11-13
10219.	6ng-1	Hydrophilicity	28-30
10220.	6ng-1	Hydrophilicity	42-45
10221.	6ng-1	Hydrophilicity	51-59
10222.	6ng-1	Hydrophilicity	75-78
10223.	6ng-1	Hydrophilicity	81-83
10224.	6ng-1	Hydrophilicity	154-170
10225.	7ng-1	AMPHI	9-13
10226.	7ng-1	AMPHI	15-18
10227.	7ng-1	AMPHI	51-55
10227.	7ng-1	АМРНІ	57-65
10229.	7ng-1	AMPHI	78-94
10229.	7ng-1	AMPHI	111-116
10230.	7ng-1	AMPHI	118-120
10231.	7ng-1	AMPHI	145-157
10233.	7ng-1	AMPHI	194-196

10234.	7ng-1	AMPHI	215-217
10235.	7ng-1	AMPHI	236-239
10236.	7ng-1	АМРНІ	281-284
10237.	7ng-1	Antigenic Index	6-27
10238.	7ng-1	Antigenic Index	46-57
10239.	7ng-1	Antigenic Index	62-74
10240.	7ng-1	Antigenic Index	78-110
10241.	7ng-1	Antigenic Index	112-114
10242.	7ng-1	Antigenic Index	117-138
10243.	7ng-1	Antigenic Index	148-154
10244.	7ng-1	Antigenic Index	157-170
10245.	7ng-1	Antigenic Index	178-190
10246.	7ng-1	Antigenic Index	200-202
10247.	7ng-1	Antigenic Index	206-212
10248.	7ng-1	Antigenic Index	220-236
10249.	7ng-1	Antigenic Index	238-256
10250.	7ng-1	Antigenic Index	260-266
10251.	7ng-1	Antigenic Index	272-280
10252.	7ng-1	Antigenic Index	285-288
10253.	7ng-1	Antigenic Index	291-293
10254.	7ng-1	Antigenic Index	296-300
10255.	7ng-1	Hydrophilicity	6-9
10256.	7ng-1	Hydrophilicity	15-27
10257.	7ng-1	Hydrophilicity	52-54
10258.	7ng-1	Hydrophilicity	63-73
10259.	7ng-1	Hydrophilicity	79-82
10260.	7ng-1	Hydrophilicity	84-94
10261.	7ng-1	Hydrophilicity	96-105
10262.	7ng-1	Hydrophilicity	107-110
10263.	7ng-1	Hydrophilicity	112-114
10264.	7ng-1	Hydrophilicity	117-122
10265.	7ng-1	Hydrophilicity	130-137
10266.	7ng-1	Hydrophilicity	148-154
10267.	7ng-1	Hydrophilicity	157-165
10268.	7ng-1	Hydrophilicity	168-170
10269.	7ng-1	Hydrophilicity	178-192
10270.	7ng-1	Hydrophilicity	200-202
10271.	7ng-1	Hydrophilicity	206-208
10272.	7ng-1	Hydrophilicity	220-234
10273.	7ng-1	Hydrophilicity	254-256
10274.	7ng-1	Hydrophilicity	262-265
10275.	7ng-1	Hydrophilicity	273-276
10276.	7ng-1	Hydrophilicity	285-288
10277.	7ng-1	Hydrophilicity	291-293
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10278.	7ng-1	Hydrophilicity	296-300
10279.	9ng-1	АМРНІ	7-14
10280.	9ng-1	AMPHI	30-45
10281.	9ng-1	АМРНІ	60-68
10282.	9ng-1	АМРНІ	97-100
10283.	9ng-1	АМРНІ	114-117
10284.	9ng-1	АМРНІ	125-133
10285.	9ng-1	АМРНІ	138-162
10286.	9ng-1	АМРНІ	187-196
10287.	9ng-1	АМРНІ	202-208
10288.	9ng-1	АМРНІ	225-234
10289.	9ng-1	АМРНІ	252-262
10290.	9ng-1	АМРНІ	264-267
10291.	9ng-1	AMPHI	269-272
10292.	9ng-1	AMPHI	276-290
10293.	9ng-1	AMPHI	323-330
10294.	9ng-1	АМРНІ	332-334
10295.	9ng-1	AMPHI	356-358
10296.	9ng-1	АМРНІ	360-365
10297.	9ng-1	АМРНІ	393-407
10298.	9ng-1	АМРНІ	414-419
10299.	9ng-1	АМРНІ	421-425
10300.	9ng-1	АМРНІ	439-455
10301.	9ng-1	АМРНІ	472-479
10302.	9ng-1	АМРНІ	489-491
10303.	9ng-1	АМРНІ	493-497
10304.	9ng-1	АМРНІ	501-505
10305.	9ng-1	АМРНІ	561-565
10306.	9ng-1	АМРНІ	577-582
10307.	9ng-1	АМРНІ	590-597
10308.	9ng-1	Antigenic Index	27-57
10309.	9ng-1	Antigenic Index	59-66
10310.	9ng-1	Antigenic Index	75-82
10311.	9ng-1	Antigenic Index	94-107
10312.	9ng-1	Antigenic Index	116-119
10313.	9ng-1	Antigenic Index	124-141
10314.	9ng-1	Antigenic Index	145-172
10315.	9ng-1	Antigenic Index	185-200
10316.	9ng-1	Antigenic Index	203-205
10317.	9ng-1	Antigenic Index	217-240
10318.	9ng-1	Antigenic Index	248-268
10319.	9ng-1	Antigenic Index	283-292
10320.	9ng-1	Antigenic Index	299-305
10321.	9ng-1	Antigenic Index	315-322

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10322	9ng-1	Antigenic Index	324-343
10323.	9ng-1	Antigenic Index	352-359
10324.	9ng-1	Antigenic Index	362-370
10325.	9ng-1	Antigenic Index	373-378
10326.	9ng-1	Antigenic Index	385-394
10327.	9ng-1	Antigenic Index	396-412
10328.	9ng-1	Antigenic Index	414-417
10329.	9ng-1	Antigenic Index	426-434
10330.	9ng-1	Antigenic Index	445-454
10331.	9ng-1	Antigenic Index	465-472
10332.	9ng-1	Antigenic Index	483-487
10333.	9ng-1	Antigenic Index	493-496
10334.	9ng-1	Antigenic Index	499-509
10335.	9ng-1	Antigenic Index	517-529
10336.	9ng-1	Antigenic Index	535-542
10337.	9ng-1	Antigenic Index	547-558
10338.	9ng-1	Antigenic Index	570-575
10339.	9ng-1	Antigenic Index	583-600
10340.	9ng-1	Antigenic Index	602-612
10341.	9ng-1	Hydrophilicity	27-57
10342.	9ng-1	Hydrophilicity	59-66
10343.	9ng-1	Hydrophilicity	75-82
10344.	9ng-1	Hydrophilicity	94-107
10345.	9ng-1	Hydrophilicity	116-119
10346.	9ng-1	Hydrophilicity	131-137
10347.	9ng-1	Hydrophilicity	145-153
10348.	9ng-1	Hydrophilicity	155-172
10349.	9ng-1	Hydrophilicity	186-200
10350.	9ng-1	Hydrophilicity	203-205
10351.	9ng-1	Hydrophilicity	217-238
10352.	9ng-1	Hydrophilicity	248-256
10353.	9ng-1	Hydrophilicity	261-268
10354.	9ng-1	Hydrophilicity	283-292
10355.	9ng-1	Hydrophilicity	315-322
10356.	9ng-1	Hydrophilicity	327-333
10357.	9ng-1	Hydrophilicity	335-343
10358.	9ng-1	Hydrophilicity	352-359
10359.	9ng-1	Hydrophilicity	362-364
10360.	9ng-1	Hydrophilicity	367-369
10361.	9ng-1	Hydrophilicity	385-394
10362.	9ng-1	Hydrophilicity	396-408
10363.	9ng-1	Hydrophilicity	415-417
10364.	9ng-1	Hydrophilicity	426-434
10365.	9ng-1	Hydrophilicity	448-454

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10366.	9ng-1	Hydrophilicity	467-479
10367.	9ng-1	Hydrophilicity	483-487
10368.	9ng-1	Hydrophilicity	500-507
10369.	9ng-1	Hydrophilicity	519-525
10370.	9ng-1	Hydrophilicity	537-541
10371.	9ng-1	Hydrophilicity	550-558
10372.	9ng-1	Hydrophilicity	570-575
10373.	9ng-1	Hydrophilicity	585-597
10374.	9ng-1	Hydrophilicity	605-612
10375.	10ng-1	AMPHI	16-18
10376.	10ng-1	AMPHI	38-40
10377.	10ng-1	AMPHI	87-91
10378.	10ng-1	AMPHI	174-181
10379.	10ng-1	AMPHI	200-202
10380.	10ng-1	AMPHI	209-213
10381.	10ng-1	AMPHI	223-227
10382.	10ng-1	AMPHI	241-247
10383.	10ng-1	AMPHI	263-280
10384.	10ng-1	АМРНІ	287-289
10385.	10ng-1	AMPHI	305-313
10386.	10ng-1	AMPHI	339-342
10387.	10ng-1	AMPHI	347-353
10388.	10ng-1	AMPHI	358-365
10389.	10ng-1	AMPHI	401-412
10390.	10ng-1	AMPHI	430-434
10391.	10ng-1	AMPHI	442-450
10392.	10ng-1	AMPHI	457-465
10393.	10ng-1	Antigenic Index	1-5
10394.	10ng-1	Antigenic Index	32-38
10395.	10ng-1	Antigenic Index	69-74
10396.	10ng-1	Antigenic Index	95-103
10397.	10ng-1	Antigenic Index	108-111
10398.	10ng-1	Antigenic Index	135-139
10399.	10ng-1	Antigenic Index	167-170
10400.	10ng-1	Antigenic Index	192-205
10401.	10ng-1	Antigenic Index	231-237
10402.	10ng-1	Antigenic Index	277-287
10403.	10ng-1	Antigenic Index	289-293
10404.	10ng-1	Antigenic Index	317-321
10405.	10ng-1	Antigenic Index	349-357
10406.	10ng-1	Antigenic Index	376-383
10407.	10ng-1	Antigenic Index	398-405
10408.	10ng-1	Antigenic Index	408-411

10410.	10ng-1	Antigenic Index	453-459
10411.	10ng-1	Antigenic Index	467-470
10412.	10ng-1	Hydrophilicity	1-5
10412.	10ng-1	Hydrophilicity	34-37
10413.	10ng-1	Hydrophilicity	69-74
10414.	10ng-1	Hydrophilicity	97-100
10415.	10ng-1	Hydrophilicity	108-111
10417.	10ng-1	Hydrophilicity	135-139
10417.	10ng-1	Hydrophilicity	192-203
10418.	10ng-1	Hydrophilicity	231-233
10419.	10ng-1	Hydrophilicity	235-237
10420.		Hydrophilicity	277-287
	10ng-1		
10422.	10ng-1	Hydrophilicity	289-293
10423.	10ng-1	Hydrophilicity	349-355
10424.	10ng-1	Hydrophilicity	378-382
10425.	10ng-1	Hydrophilicity	399-403
10426.	10ng-1	Hydrophilicity	453-459
10427.	llng-l	AMPHI	6-8
10428.	11ng-1	AMPHI	20-25
10429.	11ng-1	AMPHI	31-33
10430.	llng-l	AMPHI	60-65
10431.	11ng-1	AMPHI	73-79
10432.	11ng-1	AMPHI	110-118
10433.	11ng-1	AMPHI	120-123
10434.	11ng-1	AMPHI	150-155
10435.	11ng-1	AMPHI	186-190
10436.	11ng-1	AMPHI_	201-206
10437.	11ng-1	AMPHI	233-227
10438.	11ng-1	AMPHI	234-236
10439.	11ng-1	AMPHI	239-242
10440.	11ng-1	AMPHI	244-252
10441.	11ng-1	AMPHI	316-325
10442.	11ng-1	AMPHI	327-331
10443.	11ng-1	AMPHI	348-353
10444.	11ng-1	AMPHI	365-368
10445.	11ng-1	AMPHI	376-384
10446.	llng-l	AMPHI	414-416
10447.	llng-l	AMPHI	418-433
10448.	llng-1	AMPHI	442-445
10449.	llng-l	AMPHI	450-452
10450.	llng-1	AMPHI	454-459
10451.	11ng-1	AMPHI	479-487
10452.	llng-1	AMPHI	523-526
10453.	11ng-1	Antigenic Index	1-5

10454.	11ng-1	Antigenic Index	22-42
10455.	11ng-1	Antigenic Index	44-46
10456.	11ng-1	Antigenic Index	66-76
10457.	11ng-1	Antigenic Index	82-91
10458.	11ng-1	Antigenic Index	94-101
10459.	11ng-1	Antigenic Index	108-111
10460.	11ng-1	Antigenic Index	124-153
10461.	11ng-1	Antigenic Index	157-163
10462.	11ng-1	Antigenic Index	172-178
10463.	11ng-1	Antigenic Index	180-198
10464.	11ng-1	Antigenic Index	210-216
10465.	11ng-1	Antigenic Index	219-244
10466.	11ng-1	Antigenic Index	259-266
10467.	11ng-1	Antigenic Index	268-284
10468.	11ng-1	Antigenic Index	295-304
10469.	llng-l	Antigenic Index	311-314
10470.	11ng-1	Antigenic Index	326-334
10471.	llng-l	Antigenic Index	339-341
10472.	11ng-1	Antigenic Index	353-355
10473.	11ng-1	Antigenic Index	376-378
10474.	11ng-1	Antigenic Index	380-405
10475.	llng-l	Antigenic Index	413-423
10476.	11ng-1	Antigenic Index	445-449
10477.	11ng-1	Antigenic Index	458-465
10478.	11ng-1	Antigenic Index	482-491
10479.	11ng-1	Antigenic Index	530-546
10480.	11ng-1	Hydrophilicity	1-5
10481.	11ng-1	Hydrophilicity	28-31
10482.	11ng-1	Hydrophilicity	36-42
10483.	11ng-1	Hydrophilicity	44-46
10484.	11ng-1	Hydrophilicity	66-76
10485.	11ng-1	Hydrophilicity	83-91
10486.	11ng-1	Hydrophilicity	96-100
10487.	11ng-1	Hydrophilicity	108-111
10488.	llng-l	Hydrophilicity	125-130
10489.	11ng-1	Hydrophilicity	135-153
10490.	11ng-1	Hydrophilicity	184-195
10491.	11ng-1	Hydrophilicity	213-215
10492.	11ng-1	Hydrophilicity	219-241
10493.	11ng-1	Hydrophilicity	261-264
10494.	11ng-1	Hydrophilicity	270-284
10495.	11ng-1	Hydrophilicity	297-304
10496.	11ng-1	Hydrophilicity	329-332
10497.	11ng-1	Hydrophilicity	380-388
10771.	1 1115-1	Laryaropiniteity	300 300

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10498.	11ng-1	Hydrophilicity	392-405
10499.	11ng-1	Hydrophilicity	413-419
10500.	11ng-1	Hydrophilicity	445-449
10501.	11ng-1	Hydrophilicity	459-463
10502.	11ng-1	Hydrophilicity	485-491
10503.	11ng-1	Hydrophilicity	533-546
10504.	12ng-1	АМРНІ	6-26
10505.	12ng-1	АМРНІ	72-103
10506.	12ng-1	АМРНІ	116-120
10507.	12ng-1	АМРНІ	123-125
10508.	12ng-1	АМРНІ	127-129
10509.	12ng-1	AMPHI	141-144
10510.	12ng-1	АМРНІ	160-181
10511.	12ng-1	АМРНІ	190-203
10512.	12ng-1	АМРНІ	229-233
10513.	12ng-1	АМРНІ	241-243
10514.	12ng-1	АМРНІ	260-265
10515.	12ng-1	АМРНІ	283-289
10516.	12ng-1	AMPHI	297-303
10517.	12ng-1	AMPHI	325-327
10518.	12ng-1	АМРНІ	330-339
10519.	12ng-1	AMPHI	341-352
10520.	12ng-1	AMPHI	367-380
10521.	12ng-1	АМРНІ	408-410
10522.	12ng-1	АМРНІ	437-467
10523.	12ng-1	AMPHI	480-483
10524.	12ng-1	АМРНІ	494-502
10525.	12ng-1	Antigenic Index	1-14
10526.	12ng-1	Antigenic Index	23-25
10527.	12ng-1	Antigenic Index	50-67
10528.	12ng-1	Antigenic Index	74-79
10529.	12ng-1	Antigenic Index	108-113
10530.	12ng-1	Antigenic Index	123-131
10531.	12ng-1	Antigenic Index	141-147
10532.	12ng-1	Antigenic Index	164-169
10533.	12ng-1	Antigenic Index	180-183
10534.	12ng-1	Antigenic Index	239-271
10535.	12ng-1	Antigenic Index	293-305
10536.	12ng-1	Antigenic Index	310-312
10537.	12ng-1	Antigenic Index	332-344
10538.	12ng-1	Antigenic Index	350-352
10539.	12ng-1	Antigenic Index	375-377
10540.	12ng-1	Antigenic Index	391-396
10541.	12ng-1	Antigenic Index	446-449

10542	12 1	Antiqueis I. I.	471 479
10542.	12ng-1	Antigenic Index	471-478
10543.	12ng-1	Antigenic Index	512-514
10544.	12ng-1	Hydrophilicity	2-12
10545.	12ng-1	Hydrophilicity	52-67
10546.	12ng-1	Hydrophilicity	74-79
10547.	12ng-1	Hydrophilicity	108-113
10548.	12ng-1	Hydrophilicity	125-130
10549	12ng-1	Hydrophilicity	144-146
10550.	12ng-1	Hydrophilicity	239-242
10551.	12ng-1	Hydrophilicity	252-264
10552.	12ng-1	Hydrophilicity	296-302
10553.	12ng-1	Hydrophilicity	333-344
10554.	12ng-1	Hydrophilicity	391-393
10555.	12ng-1	Hydrophilicity	446-449
10556.	12ng-1	Hydrophilicity	471-477
10557.	13ng-1	АМРНІ	14-19
10558.	13ng-1	AMPHI	50-56
10559.	13ng-1	AMPHI	72-93
10560.	13ng-1	АМРНІ	110-117
10561.	13ng-1	Antigenic Index	66-83
10562.	13ng-1	Antigenic Index	89-97
10563.	13ng-1	Antigenic Index	100-104
10564.	13ng-1	Antigenic Index	107-118
10565.	13ng-1	Antigenic Index	121-128
10566.	13ng-1	Hydrophilicity	66-83
10567.	13ng-1	Hydrophilicity	112-118
10568.	13ng-1	Hydrophilicity	121-128
10569.	15ng-1	AMPHI	18-26
10570.	15ng-1	АМРНІ	84-86
10571.	15ng-1	АМРНІ	113-133
10572.	15ng-1	AMPHI	153-156
10573.	15ng-1	AMPHI	173-176
10574.	15ng-1	AMPHI	181-190
10575.	15ng-1	AMPHI	201-207
10576.	15ng-1	AMPHI	218-220
10577.	15ng-1	AMPHI	250-252
10578.	15ng-1	AMPHI	264-277
10579.	15ng-1	AMPHI	281-286
10580.	15ng-1	AMPHI	288-290
10581.	15ng-1	Antigenic Index	1-3
10582.	15ng-1	Antigenic Index	18-20
10583.	15ng-1	Antigenic Index	26-36
10583.	15ng-1	Antigenic Index	38-40
10585.	15ng-1	Antigenic Index	47-54
10303.	1 1211g-1		7/-37

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10586.	15ng-1	Antigenic Index	58-61
10587.	15ng-1	Antigenic Index	69-80
10588.	15ng-1	Antigenic Index	86-88
10589.	15ng-1	Antigenic Index	91-117
10590.	15ng-1	Antigenic Index	132-148
10591.	15ng-1	Antigenic Index	153-171
10592.	15ng-1	Antigenic Index	184-186
10593.	15ng-1	Antigenic Index	191-195
10594	15ng-1	Antigenic Index	207-212
10595.	15ng-1	Antigenic Index	219-226
10596.	15ng-1	Antigenic Index	233-247
10597	15ng-1	Antigenic Index	251-256
10598.	15ng-1	Antigenic Index	263-275
10599.	15ng-1	Antigenic Index	283-320
10600.	15ng-1	Hydrophilicity	1-3
10601.	15ng-1	Hydrophilicity	29-36
10602.	15ng-1	Hydrophilicity	38-40
10603.	15ng-1	Hydrophilicity	47-54
10604.	15ng-1	Hydrophilicity	58-61
10605.	15ng-1	Hydrophilicity	70-74
10606.	15ng-1	Hydrophilicity	86-88
10607.	15ng-1	Hydrophilicity	97-100
10608.	15ng-1	Hydrophilicity	106-115
10609.	15ng-1	Hydrophilicity	132-147
10610.	15ng-1	Hydrophilicity	155-170
10611.	15ng-1	Hydrophilicity	191-195
10612.	15ng-1	Hydrophilicity	207-212
10613.	15ng-1	Hydrophilicity	219-226
10614.	15ng-1	Hydrophilicity	233-247
10615.	15ng-1	Hydrophilicity	251-254
10616.	15ng-1	Hydrophilicity	264-273
10617.	15ng-1	Hydrophilicity	294-303
10618.	15ng-1	Hydrophilicity	306-320
10619.	16ng-1	AMPHI	14-16
10620.	16ng-1	АМРНІ	40-45
10621.	16ng-1	AMPHI	125-131
10622.	16ng-1	AMPHI	175-177
10623.	16ng-1	AMPHI	189-196
10624.	16ng-1	AMPHI	227-231
10625.	16ng-1	AMPHI	246-251
10626.	16ng-1	AMPHI	258-261
10627.	16ng-1	AMPHI	275-284
10628.	16ng-1	Antigenic Index	2-10
10629.	16ng-1	Antigenic Index	12-17

10630.	16ng-1	Antigenic Index	20-26
10631.	16ng-1	Antigenic Index	33-63
10632.	16ng-1	Antigenic Index	66-81
10633.	16ng-1	Antigenic Index	91-118
10634.	16ng-1	Antigenic Index	137-140
10635.	16ng-1	Antigenic Index	179-187
10636.	16ng-1	Antigenic Index	197-200
10637.	16ng-1	Antigenic Index	218-223
10638.	16ng-1	Antigenic Index	248-259
10639.	16ng-1	Antigenic Index	268-274
10640.	16ng-1	Antigenic Index	280-283
10641.	16ng-1	Antigenic Index	307-310
10642.	16ng-1	Antigenic Index	318-334
10643.	16ng-1	Hydrophilicity	2-8
10644.	16ng-1	Hydrophilicity	20-26
10645.	16ng-1	Hydrophilicity	35-61
10646.	16ng-1	Hydrophilicity	66-72
10647.	16ng-1	Hydrophilicity	75-81
10647.		Hydrophilicity	92-100
10649.	16ng-1	Hydrophilicity	103-105
	16ng-1	Hydrophilicity	107-118
10650.	16ng-1	Hydrophilicity	179-186
10651.	16ng-1		
10652.	16ng-1	Hydrophilicity	218-223
10653.	16ng-1	Hydrophilicity	248-258
10654.	16ng-1	Hydrophilicity	268-272
10655.	16ng-1	Hydrophilicity	280-283
10656.	16ng-1	Hydrophilicity	320-323
10657.	16ng-1	Hydrophilicity	325-331
10658.	17ng-1	AMPHI	17-25
10659.	17ng-1	AMPHI	46-50
10660.	17ng-1	AMPHI	65-72
10661.	17ng-1	AMPHI	85-98
10662.	17ng-1	AMPHI	104-107
10663.	17ng-1	AMPHI	126-129
10664.	17ng-1	AMPHI	136-160
10665.	17ng-1	AMPHI	195-201
10666.	17ng-1	AMPHI	203-212
10667.	17ng-1	AMPHI	224-226
10668.	17ng-1	Antigenic Index	26-29
10669.	17ng-1	Antigenic Index	73-81
10670.	17ng-1	Antigenic Index	127-140
10671.	17ng-1	Antigenic Index	161-164
10672.	17ng-1	Antigenic Index	181-186
10673.	17ng-1	Antigenic Index	209-212

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10674.	17ng-1	Antigenic Index	239-252
10675.	17ng-1	Hydrophilicity	74-81
10676.	17ng-1	Hydrophilicity	128-139
10677.	17ng-1	Hydrophilicity	239-252
10678.	18ng-1	AMPHI	10-12
10679.	18ng-1	AMPHI	36-41
10680.	18ng-1	АМРНІ	101-103
10681.	18ng-1	АМРНІ	115-120
10682.	18ng-1	АМРНІ	122-125
10683.	18ng-1	АМРНІ	132-140
10684.	18ng-1	АМРНІ	184-190
10685.	18ng-1	Antigenic Index	79-96
10686.	18ng-1	Antigenic Index	123-125
10687.	18ng-1	Antigenic Index	162-176
10688.	18ng-1	Antigenic Index	198-201
10689.	18ng-1	Hydrophilicity	81-86
10690.	18ng-1	Hydrophilicity	91-95
10691.	18ng-1	Hydrophilicity	162-169
10692.	18ng-1	Hydrophilicity	198-201
10693.	19ng-1	AMPHI	15-19
10694.	19ng-1	AMPHI	43-46
10695.	19ng-1	AMPHI	49-53
10696.	19ng-1	AMPHI	56-63
10697.	19ng-1	AMPHI	66-71
10698.	19ng-1	AMPHI	100-102
10699.	19ng-1	AMPHI	117-122
10700.	19ng-1	AMPHI	161-175
10701.	19ng-1	AMPHI	204-211
10702.	19ng-1	АМРНІ	213-215
10703.	19ng-1	AMPHI	227-236
10704.	19ng-1	AMPHI	242-247
10705.	19ng-1	AMPHI	257-259
10706.	19ng-1	AMPHI	268-275
10707.	19ng-1	AMPHI	279-289
10708.	19ng-1	AMPHI	298-311
10709.	19ng-1	AMPHI	313-316
10710.	19ng-1	AMPHI	320-346
10711.	19ng-1	AMPHI	366-371
10712.	19ng-1	AMPHI	400-404
10713.	19ng-1	AMPHI	432-451
10714.	19ng-1	AMPHI	487-493
10715.	19ng-1	AMPHI	499-502
10716.	19ng-1	AMPHI	504-513
10717.	19ng-1	AMPHI	548-559
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10719.   19ng-1   AMPHI   610-620   10720.   19ng-1   AMPHI   647-655   10721.   19ng-1   AMPHI   661-665   10721.   19ng-1   AMPHI   661-665   10722.   19ng-1   AMPHI   693-715   10723.   19ng-1   Antigenic Index   31-35   10724.   19ng-1   Antigenic Index   49-61   10725.   19ng-1   Antigenic Index   49-61   10725.   19ng-1   Antigenic Index   125-129   10727.   19ng-1   Antigenic Index   156-165   10728.   19ng-1   Antigenic Index   176-187   10729.   19ng-1   Antigenic Index   176-187   10730.   19ng-1   Antigenic Index   210-213   10731.   19ng-1   Antigenic Index   211-232   10732.   19ng-1   Antigenic Index   211-232   10733.   19ng-1   Antigenic Index   221-232   10733.   19ng-1   Antigenic Index   221-234   10733.   19ng-1   Antigenic Index   226-274   10735.   19ng-1   Antigenic Index   276-310   10736.   19ng-1   Antigenic Index   312-372   10737.   19ng-1   Antigenic Index   312-372   10737.   19ng-1   Antigenic Index   312-372   10738.   19ng-1   Antigenic Index   376-379   10738.   19ng-1   Antigenic Index   376-379   10738.   19ng-1   Antigenic Index   376-379   10740.   19ng-1   Antigenic Index   423-434   10739.   19ng-1   Antigenic Index   474-479   10741.   19ng-1   Antigenic Index   474-479   10744.   19ng-1   Antigenic Index   526-529   10742.   19ng-1   Antigenic Index   526-529   10742.   19ng-1   Antigenic Index   535-538   10743.   19ng-1   Antigenic Index   535-538   10743.   19ng-1   Antigenic Index   536-63   10744.   19ng-1   Antigenic Index   536-63   10745.   19ng-1   Antigenic Index   536-63   10746.   19ng-1   Hydrophilicity   106-165	10718.	19ng-1	АМРНІ	578-599
10720.   19ng-1   AMPHI   647-655   10721.   19ng-1   AMPHI   661-665   10722.   19ng-1   AMPHI   693-715   10723.   19ng-1   Antigenic Index   31-35   10724.   19ng-1   Antigenic Index   49-61   10725.   19ng-1   Antigenic Index   49-61   10725.   19ng-1   Antigenic Index   49-61   10726.   19ng-1   Antigenic Index   125-129   10727.   19ng-1   Antigenic Index   125-129   10727.   19ng-1   Antigenic Index   156-165   10728.   19ng-1   Antigenic Index   176-187   10729.   19ng-1   Antigenic Index   194-197   10730.   19ng-1   Antigenic Index   210-213   10731.   19ng-1   Antigenic Index   210-232   10732.   19ng-1   Antigenic Index   241-248   10733.   19ng-1   Antigenic Index   251-265   10734.   19ng-1   Antigenic Index   276-310   10736.   19ng-1   Antigenic Index   276-310   10736.   19ng-1   Antigenic Index   312-372   10737.   19ng-1   Antigenic Index   312-372   10738.   19ng-1   Antigenic Index   312-372   10738.   19ng-1   Antigenic Index   324-344   10739.   19ng-1   Antigenic Index   323-39   10738.   19ng-1   Antigenic Index   423-434   10739.   19ng-1   Antigenic Index   423-434   10739.   19ng-1   Antigenic Index   425-457   10740.   19ng-1   Antigenic Index   474-479   10741.   19ng-1   Antigenic Index   526-529   10742.   19ng-1   Antigenic Index   535-538   10743.   19ng-1   Antigenic Index   535-538   10744.   19ng-1   Antigenic Index   536-63   10744.   19ng-1   Antigenic Index   536-63   10744.   19ng-1   Antigenic Index   536-63   10748.   19ng-1   Antigenic Index   536-63   10748.   19ng-1   Antigenic Index   665-682   10749.   19ng-1   Antigenic Index   665-682   10749.   19ng-1   Antigenic Index   665-682   10749.   19ng-1   Antigenic Index   665-682   10748.   19ng-1   Antigenic Index   665-682   10748.   19ng-1   Antigenic Index   665-682   10748.   19ng-1   Antigenic Index   665-682   10749.   19ng-1   Hydrophilicity   176-187   10755.   19ng-1   Hydrophilicity   176-187   10755.   19ng-1   Hydrophilicity   176-187   10755.   19ng-1   Hydrophilicity   220-231   10756.   19ng-1   Hyd				
10721.   19ng-1   AMPHI   661-665   10722.   19ng-1   AMPHI   693-715   10723.   19ng-1   Antigenic Index   31-35   10724.   19ng-1   Antigenic Index   49-61   10725.   19ng-1   Antigenic Index   49-61   10726.   19ng-1   Antigenic Index   125-129   10727.   19ng-1   Antigenic Index   156-165   10728.   19ng-1   Antigenic Index   176-187   10729.   19ng-1   Antigenic Index   176-187   10729.   19ng-1   Antigenic Index   176-187   10730.   19ng-1   Antigenic Index   210-213   10731.   19ng-1   Antigenic Index   219-232   10732.   19ng-1   Antigenic Index   241-248   10733.   19ng-1   Antigenic Index   251-265   10734.   19ng-1   Antigenic Index   267-274   10735.   19ng-1   Antigenic Index   276-310   10736.   19ng-1   Antigenic Index   276-310   10736.   19ng-1   Antigenic Index   312-372   10737.   19ng-1   Antigenic Index   312-372   10737.   19ng-1   Antigenic Index   376-379   10738.   19ng-1   Antigenic Index   376-379   10738.   19ng-1   Antigenic Index   423-434   10739.   19ng-1   Antigenic Index   474-479   10741.   19ng-1   Antigenic Index   474-479   10741.   19ng-1   Antigenic Index   526-529   10742.   19ng-1   Antigenic Index   526-529   10742.   19ng-1   Antigenic Index   535-538   10743.   19ng-1   Antigenic Index   544-546   10744.   19ng-1   Antigenic Index   584-602   10745.   19ng-1   Antigenic Index   584-602   10746.   19ng-1   Antigenic Index   584-602   10747.   19ng-1   Antigenic Index   652-663   10748.   19ng-1   Antigenic Index   652-663   10748.   19ng-1   Antigenic Index   652-663   10749.   19ng-1   Hydrophilicity   176-187   10750.   19ng-1   Hydrophilicity   10751.   19ng-1   Hydrophilicity   10751.   19ng-1   Hydro	-			
10722.   19ng-1   AMPHI   693-715   10723.   19ng-1   Antigenic Index   31-35   10724.   19ng-1   Antigenic Index   49-61   10725.   19ng-1   Antigenic Index   81-83   10726.   19ng-1   Antigenic Index   125-129   10727.   19ng-1   Antigenic Index   125-129   10727.   19ng-1   Antigenic Index   156-165   10728.   19ng-1   Antigenic Index   176-187   10729.   19ng-1   Antigenic Index   194-197   10730.   19ng-1   Antigenic Index   210-213   10731.   19ng-1   Antigenic Index   219-232   10732.   19ng-1   Antigenic Index   241-248   10733.   19ng-1   Antigenic Index   251-265   10734.   19ng-1   Antigenic Index   267-274   10735.   19ng-1   Antigenic Index   267-274   10735.   19ng-1   Antigenic Index   276-310   10736.   19ng-1   Antigenic Index   312-372   10737.   19ng-1   Antigenic Index   376-379   10738.   19ng-1   Antigenic Index   423-434   10739.   19ng-1   Antigenic Index   455-457   10740.   19ng-1   Antigenic Index   455-457   10740.   19ng-1   Antigenic Index   474-479   10741.   19ng-1   Antigenic Index   526-529   10742.   19ng-1   Antigenic Index   535-538   10743.   19ng-1   Antigenic Index   535-538   10743.   19ng-1   Antigenic Index   536-529   10744.   19ng-1   Antigenic Index   536-529   10745.   19ng-1   Antigenic Index   536-529   10746.   19ng-1   Antigenic Index   584-602   10746.   19ng-1   Antigenic Index   584-602   10747.   19ng-1   Antigenic Index   695-716   10750.   19ng-1   Hydrophilicity   176-187   10755.   19ng-1   Hydrophilicity   176-187   10755.   19ng-1   Hydrophilicity   176-187   10755.   19ng-1   Hydrophilicity   176-187   10755.   19ng-1   Hydrophilicity   277-295   10760.   19ng-1   Hydrophilicity   277-295   10760.   19ng-1   Hydrophilicity   277-295   10760.   19ng-1   Hydrophilicity   277-295   10760.   19ng-1   Hydrophilicity   277-310				
10723.   19ng-1   Antigenic Index   49-61				
10724.   19ng-1   Antigenic Index   49-61   10725.   19ng-1   Antigenic Index   81-83   10726.   19ng-1   Antigenic Index   125-129   10727.   19ng-1   Antigenic Index   156-165   10728.   19ng-1   Antigenic Index   176-187   10729.   19ng-1   Antigenic Index   194-197   10730.   19ng-1   Antigenic Index   210-213   10731.   19ng-1   Antigenic Index   219-232   10732.   19ng-1   Antigenic Index   241-248   10733.   19ng-1   Antigenic Index   241-248   10733.   19ng-1   Antigenic Index   251-265   10734.   19ng-1   Antigenic Index   267-274   10735.   19ng-1   Antigenic Index   276-310   10736.   19ng-1   Antigenic Index   312-372   10737.   19ng-1   Antigenic Index   376-379   10738.   19ng-1   Antigenic Index   423-434   10739.   19ng-1   Antigenic Index   423-434   10739.   19ng-1   Antigenic Index   425-457   10740.   19ng-1   Antigenic Index   474-479   10741.   19ng-1   Antigenic Index   526-529   10742.   19ng-1   Antigenic Index   535-538   10743.   19ng-1   Antigenic Index   544-546   10744.   19ng-1   Antigenic Index   544-546   10744.   19ng-1   Antigenic Index   544-56   10745.   19ng-1   Antigenic Index   544-56   10746.   19ng-1   Antigenic Index   665-663   10747.   19ng-1   Antigenic Index   665-663   10748.   19ng-1   Antigenic Index   662-663   10749.   19ng-1   Antigenic Index   662-663   10750.   19ng-1   Hydrophilicity   194-197   10750.   19ng-1   Hydrophilicity   194-197   10750.   19ng-1   Hydrophilicity   194-197   10751.   19ng-1   Hydrophilicity   194-197   10752.   19ng-1   Hydrophilicity   220-231   10754.   19ng-1   Hydrophilicity   220-231   10755.   19ng-1   Hydrophilicity   220-231   10756.   19ng-1   Hydrophilicity   220-231   10757.   19ng-1   Hydrophilicity   227-295   10760.   19ng-1   Hydrophilicity   297-310				
10725.   19ng-1   Antigenic Index   125-129     10727.   19ng-1   Antigenic Index   125-129     10727.   19ng-1   Antigenic Index   156-165     10728.   19ng-1   Antigenic Index   176-187     10729.   19ng-1   Antigenic Index   194-197     10730.   19ng-1   Antigenic Index   210-213     10731.   19ng-1   Antigenic Index   219-232     10732.   19ng-1   Antigenic Index   241-248     10733.   19ng-1   Antigenic Index   251-265     10734.   19ng-1   Antigenic Index   267-274     10735.   19ng-1   Antigenic Index   276-310     10736.   19ng-1   Antigenic Index   312-372     10737.   19ng-1   Antigenic Index   376-379     10738.   19ng-1   Antigenic Index   423-434     10739.   19ng-1   Antigenic Index   423-434     10739.   19ng-1   Antigenic Index   455-457     10740.   19ng-1   Antigenic Index   352-538     10741.   19ng-1   Antigenic Index   526-529     10742.   19ng-1   Antigenic Index   533-538     10743.   19ng-1   Antigenic Index   544-546     10744.   19ng-1   Antigenic Index   544-546     10744.   19ng-1   Antigenic Index   544-546     10745.   19ng-1   Antigenic Index   526-63     10746.   19ng-1   Antigenic Index   665-682     10748.   19ng-1   Antigenic Index   665-682     10749.   19ng-1   Antigenic Index   665-682     10740.   19ng-1   Hydrophilicity   49-61     10750.   19ng-1   Hydrophilicity   49-61     10751.   19ng-1   Hydrophilicity   176-187     10755.   19ng-1   Hydrophilicity   176-187     10756.   19ng-1   Hydrophilicity   176-187     10757.   19ng-1   Hydrophilicity   220-231     10758.   19ng-1   Hydrophilicity   277-295     10760.   19ng-1   Hydrophilicity   277-295     10760.   19ng-1   Hydrophilicity   277-295     10760.   19ng-1   Hydrophilicity   297-310     10760.   19ng-1   Hydrophilicity   297-310     10760.   19ng-1   Hydrophilicity   297-310     10760.   19ng-1   Hydrophilicity   297-310     10760.   1000-1   1000-1   1000-1     1000-1				
10726.   19ng-1   Antigenic Index   125-129     10727.   19ng-1   Antigenic Index   156-165     10728.   19ng-1   Antigenic Index   176-187     10729.   19ng-1   Antigenic Index   194-197     10730.   19ng-1   Antigenic Index   210-213     10731.   19ng-1   Antigenic Index   219-232     10732.   19ng-1   Antigenic Index   241-248     10733.   19ng-1   Antigenic Index   251-265     10734.   19ng-1   Antigenic Index   267-274     10735.   19ng-1   Antigenic Index   276-310     10736.   19ng-1   Antigenic Index   276-310     10736.   19ng-1   Antigenic Index   312-372     10737.   19ng-1   Antigenic Index   376-379     10738.   19ng-1   Antigenic Index   423-434     10739.   19ng-1   Antigenic Index   455-457     10740.   19ng-1   Antigenic Index   474-479     10741.   19ng-1   Antigenic Index   526-529     10742.   19ng-1   Antigenic Index   535-538     10743.   19ng-1   Antigenic Index   534-546     10744.   19ng-1   Antigenic Index   544-546     10744.   19ng-1   Antigenic Index   584-602     10745.   19ng-1   Antigenic Index   584-602     10746.   19ng-1   Antigenic Index   620-634     10747.   19ng-1   Antigenic Index   620-634     10748.   19ng-1   Antigenic Index   625-662     10749.   19ng-1   Antigenic Index   625-662     10749.   19ng-1   Antigenic Index   625-662     10749.   19ng-1   Antigenic Index   695-716     10750.   19ng-1   Hydrophilicity   31-35     10751.   19ng-1   Hydrophilicity   106-165     10752.   19ng-1   Hydrophilicity   194-197     10755.   19ng-1   Hydrophilicity   194-197     10756.   19ng-1   Hydrophilicity   220-231     10758.   19ng-1   Hydrophilicity   220-231     10759.   19ng-1   Hydrophilicity   227-295     10760.   19ng-1   Hydrophilicity   277-295     10760.   19ng-1   Hydrophilicity   277-295     10760.   19ng-1   Hydrophilicity   297-310     10760.   19ng-1   Hydrophilicity   297-310     10760.   19ng-1   Hydrophilicity   297-310			· · · · · · · · · · · · · · · · · · ·	
10727.         19ng-1         Antigenic Index         156-165           10728.         19ng-1         Antigenic Index         176-187           10729.         19ng-1         Antigenic Index         194-197           10730.         19ng-1         Antigenic Index         210-213           10731.         19ng-1         Antigenic Index         219-232           10732.         19ng-1         Antigenic Index         241-248           10733.         19ng-1         Antigenic Index         251-265           10734.         19ng-1         Antigenic Index         267-274           10735.         19ng-1         Antigenic Index         312-372           10736.         19ng-1         Antigenic Index         312-372           10737.         19ng-1         Antigenic Index         376-379           10738.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10744. <td< td=""><td></td><td></td><td></td><td></td></td<>				
10728.         19ng-1         Antigenic Index         176-187           10729.         19ng-1         Antigenic Index         194-197           10730.         19ng-1         Antigenic Index         210-213           10731.         19ng-1         Antigenic Index         219-232           10732.         19ng-1         Antigenic Index         241-248           10733.         19ng-1         Antigenic Index         251-265           10734.         19ng-1         Antigenic Index         267-274           10735.         19ng-1         Antigenic Index         276-310           10736.         19ng-1         Antigenic Index         312-372           10737.         19ng-1         Antigenic Index         376-379           10738.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         535-538           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         584-602           10744. <td< td=""><td></td><td></td><td></td><td></td></td<>				
10729.         19ng-1         Antigenic Index         194-197           10730.         19ng-1         Antigenic Index         210-213           10731.         19ng-1         Antigenic Index         219-232           10732.         19ng-1         Antigenic Index         241-248           10733.         19ng-1         Antigenic Index         251-265           10734.         19ng-1         Antigenic Index         267-274           10735.         19ng-1         Antigenic Index         276-310           10736.         19ng-1         Antigenic Index         312-372           10737.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         423-434           10740.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         535-538           10742.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         584-602           10746. <td< td=""><td></td><td></td><td></td><td></td></td<>				
10730.         19ng-1         Antigenic Index         210-213           10731.         19ng-1         Antigenic Index         219-232           10732.         19ng-1         Antigenic Index         241-248           10733.         19ng-1         Antigenic Index         251-265           10734.         19ng-1         Antigenic Index         267-274           10735.         19ng-1         Antigenic Index         276-310           10736.         19ng-1         Antigenic Index         312-372           10737.         19ng-1         Antigenic Index         376-379           10738.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         474-479           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         584-602           10745.         19ng-1         Antigenic Index         620-634           10747. <td< td=""><td></td><td></td><td></td><td></td></td<>				
10731.         19ng-1         Antigenic Index         219-232           10732.         19ng-1         Antigenic Index         241-248           10733.         19ng-1         Antigenic Index         251-265           10734.         19ng-1         Antigenic Index         267-274           10735.         19ng-1         Antigenic Index         312-372           10736.         19ng-1         Antigenic Index         376-379           10737.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         584-602           10745.         19ng-1         Antigenic Index         652-663           10747.         19ng-1         Antigenic Index         652-663           10749. <td< td=""><td></td><td></td><td></td><td></td></td<>				
10732.         19ng-1         Antigenic Index         241-248           10733.         19ng-1         Antigenic Index         251-265           10734.         19ng-1         Antigenic Index         267-274           10735.         19ng-1         Antigenic Index         312-372           10736.         19ng-1         Antigenic Index         376-379           10737.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         584-602           10745.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749. <td< td=""><td></td><td></td><td>···</td><td></td></td<>			···	
10733.         19ng-1         Antigenic Index         251-265           10734.         19ng-1         Antigenic Index         267-274           10735.         19ng-1         Antigenic Index         276-310           10736.         19ng-1         Antigenic Index         312-372           10737.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         584-602           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         652-663           10749.         19ng-1         Antigenic Index         652-663           10749.         19ng-1         Hydrophilicity         31-35           10750.         19				
10734.         19ng-1         Antigenic Index         267-274           10735.         19ng-1         Antigenic Index         276-310           10736.         19ng-1         Antigenic Index         312-372           10737.         19ng-1         Antigenic Index         376-379           10738.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Hydrophilicity         31-35           10750.         19				
10735.         19ng-1         Antigenic Index         276-310           10736.         19ng-1         Antigenic Index         312-372           10737.         19ng-1         Antigenic Index         376-379           10738.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Hydrophilicity         31-35           10750.         19				
10736.         19ng-1         Antigenic Index         312-372           10737.         19ng-1         Antigenic Index         376-379           10738.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         652-663           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         160-165           10753.         19n				
10737.         19ng-1         Antigenic Index         376-379           10738.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         160-165           10752.         19ng-1         Hydrophilicity         176-187           10754.         19ng				
10738.         19ng-1         Antigenic Index         423-434           10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         49-61           10752.         19ng-1         Hydrophilicity         176-187           10754.         19ng-1         Hydrophilicity         194-197           10755.         19ng-1<				
10739.         19ng-1         Antigenic Index         455-457           10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         49-61           10752.         19ng-1         Hydrophilicity         176-187           10754.         19ng-1         Hydrophilicity         194-197           10755.         19ng-1         Hydrophilicity         220-231           10756.         19ng-1 </td <td></td> <td></td> <td></td> <td></td>				
10740.         19ng-1         Antigenic Index         474-479           10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         684-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         49-61           10752.         19ng-1         Hydrophilicity         160-165           10753.         19ng-1         Hydrophilicity         194-197           10755.         19ng-1         Hydrophilicity         220-231           10756.         19ng-1         Hydrophilicity         252-262           10758.         19ng-1 <td></td> <td></td> <td><del>_</del></td> <td></td>			<del>_</del>	
10741.         19ng-1         Antigenic Index         526-529           10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         620-634           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         49-61           10752.         19ng-1         Hydrophilicity         160-165           10753.         19ng-1         Hydrophilicity         176-187           10754.         19ng-1         Hydrophilicity         194-197           10755.         19ng-1         Hydrophilicity         220-231           10756.         19ng-1         Hydrophilicity         252-262           10758.         19ng-1 <td></td> <td></td> <td></td> <td></td>				
10742.         19ng-1         Antigenic Index         535-538           10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         49-61           10752.         19ng-1         Hydrophilicity         160-165           10753.         19ng-1         Hydrophilicity         176-187           10754.         19ng-1         Hydrophilicity         194-197           10755.         19ng-1         Hydrophilicity         241-247           10757.         19ng-1         Hydrophilicity         252-262           10758.         19ng-1         Hydrophilicity         267-274           10759.         19ng-1				··
10743.         19ng-1         Antigenic Index         544-546           10744.         19ng-1         Antigenic Index         552-577           10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         49-61           10752.         19ng-1         Hydrophilicity         160-165           10753.         19ng-1         Hydrophilicity         176-187           10754.         19ng-1         Hydrophilicity         194-197           10755.         19ng-1         Hydrophilicity         220-231           10756.         19ng-1         Hydrophilicity         252-262           10758.         19ng-1         Hydrophilicity         267-274           10759.         19ng-1         Hydrophilicity         297-310				
10744.       19ng-1       Antigenic Index       552-577         10745.       19ng-1       Antigenic Index       584-602         10746.       19ng-1       Antigenic Index       620-634         10747.       19ng-1       Antigenic Index       652-663         10748.       19ng-1       Antigenic Index       665-682         10749.       19ng-1       Antigenic Index       695-716         10750.       19ng-1       Hydrophilicity       31-35         10751.       19ng-1       Hydrophilicity       49-61         10752.       19ng-1       Hydrophilicity       160-165         10753.       19ng-1       Hydrophilicity       176-187         10754.       19ng-1       Hydrophilicity       194-197         10755.       19ng-1       Hydrophilicity       220-231         10756.       19ng-1       Hydrophilicity       241-247         10757.       19ng-1       Hydrophilicity       252-262         10758.       19ng-1       Hydrophilicity       277-295         10760.       19ng-1       Hydrophilicity       297-310				
10745.         19ng-1         Antigenic Index         584-602           10746.         19ng-1         Antigenic Index         620-634           10747.         19ng-1         Antigenic Index         652-663           10748.         19ng-1         Antigenic Index         665-682           10749.         19ng-1         Antigenic Index         695-716           10750.         19ng-1         Hydrophilicity         31-35           10751.         19ng-1         Hydrophilicity         49-61           10752.         19ng-1         Hydrophilicity         160-165           10753.         19ng-1         Hydrophilicity         176-187           10754.         19ng-1         Hydrophilicity         194-197           10755.         19ng-1         Hydrophilicity         220-231           10756.         19ng-1         Hydrophilicity         252-262           10758.         19ng-1         Hydrophilicity         267-274           10759.         19ng-1         Hydrophilicity         277-295           10760.         19ng-1         Hydrophilicity         297-310				
10746.       19ng-1       Antigenic Index       620-634         10747.       19ng-1       Antigenic Index       652-663         10748.       19ng-1       Antigenic Index       665-682         10749.       19ng-1       Antigenic Index       695-716         10750.       19ng-1       Hydrophilicity       31-35         10751.       19ng-1       Hydrophilicity       49-61         10752.       19ng-1       Hydrophilicity       160-165         10753.       19ng-1       Hydrophilicity       176-187         10754.       19ng-1       Hydrophilicity       194-197         10755.       19ng-1       Hydrophilicity       220-231         10756.       19ng-1       Hydrophilicity       241-247         10757.       19ng-1       Hydrophilicity       252-262         10758.       19ng-1       Hydrophilicity       267-274         10759.       19ng-1       Hydrophilicity       277-295         10760.       19ng-1       Hydrophilicity       297-310	-			
10747.       19ng-1       Antigenic Index       652-663         10748.       19ng-1       Antigenic Index       665-682         10749.       19ng-1       Antigenic Index       695-716         10750.       19ng-1       Hydrophilicity       31-35         10751.       19ng-1       Hydrophilicity       49-61         10752.       19ng-1       Hydrophilicity       160-165         10753.       19ng-1       Hydrophilicity       176-187         10754.       19ng-1       Hydrophilicity       194-197         10755.       19ng-1       Hydrophilicity       220-231         10756.       19ng-1       Hydrophilicity       252-262         10758.       19ng-1       Hydrophilicity       267-274         10759.       19ng-1       Hydrophilicity       277-295         10760.       19ng-1       Hydrophilicity       297-310				
10748.       19ng-1       Antigenic Index       665-682         10749.       19ng-1       Antigenic Index       695-716         10750.       19ng-1       Hydrophilicity       31-35         10751.       19ng-1       Hydrophilicity       49-61         10752.       19ng-1       Hydrophilicity       160-165         10753.       19ng-1       Hydrophilicity       176-187         10754.       19ng-1       Hydrophilicity       194-197         10755.       19ng-1       Hydrophilicity       220-231         10756.       19ng-1       Hydrophilicity       241-247         10757.       19ng-1       Hydrophilicity       252-262         10758.       19ng-1       Hydrophilicity       267-274         10759.       19ng-1       Hydrophilicity       277-295         10760.       19ng-1       Hydrophilicity       297-310				
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10755.       19ng-1       Hydrophilicity       220-231         10756.       19ng-1       Hydrophilicity       241-247         10757.       19ng-1       Hydrophilicity       252-262         10758.       19ng-1       Hydrophilicity       267-274         10759.       19ng-1       Hydrophilicity       277-295         10760.       19ng-1       Hydrophilicity       297-310				
10756.       19ng-1       Hydrophilicity       241-247         10757.       19ng-1       Hydrophilicity       252-262         10758.       19ng-1       Hydrophilicity       267-274         10759.       19ng-1       Hydrophilicity       277-295         10760.       19ng-1       Hydrophilicity       297-310				
10757.       19ng-1       Hydrophilicity       252-262         10758.       19ng-1       Hydrophilicity       267-274         10759.       19ng-1       Hydrophilicity       277-295         10760.       19ng-1       Hydrophilicity       297-310				
10758.       19ng-1       Hydrophilicity       267-274         10759.       19ng-1       Hydrophilicity       277-295         10760.       19ng-1       Hydrophilicity       297-310				
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10881.	22ng-1	Hydrophilicity	109-111
10882.	22ng-1	Hydrophilicity	113-123
10883.	22ng-1	Hydrophilicity	132-137
10884.	22ng-1	Hydrophilicity	140-146
10885.	22ng-1	Hydrophilicity	158-160
10886.	22ng-1	Hydrophilicity	165-167
10887.	22ng-1	Hydrophilicity	169-176
10888.	22ng-1	Hydrophilicity	183-191
10889.	22ng-1	Hydrophilicity	195-206
10890.	22ng-1	Hydrophilicity	208-211
10890.	22ng-1	Hydrophilicity	257-263
10891.	22ng-1	Hydrophilicity	269-276
10893.	22ng-1	Hydrophilicity	291-300

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10894.	22ng-1	Hydrophilicity	326-334
10895.	22ng-1	Hydrophilicity	342-348
10896.	22ng-1	Hydrophilicity	369-375
10897.	22ng-1	Hydrophilicity	380-383
10898.	22ng-1	Hydrophilicity	399-407
10899.	22ng-1	Hydrophilicity	413-420
10900.	22ng-1	Hydrophilicity	428-431
10901.	22ng-1	Hydrophilicity	434-436
10902.	22ng-1	Hydrophilicity	438-447
10903.	23ng-1	АМРНІ	27-35
10904.	23ng-1	AMPHI	66-75
10905.	23ng-1	АМРНІ	88-95
10906.	23ng-1	АМРНІ	131-133
10907.	23ng-1	АМРНІ	137-141
10908.	23ng-1	АМРНІ	146-167
10909.	23ng-1	АМРНІ	169-176
10910.	23ng-1	АМРНІ	215-233
10911.	23ng-1	АМРНІ	238-241
10912.	23ng-1	АМРНІ	288-290
10913.	23ng-1	АМРНІ	302-307
10914.	23ng-1	АМРНІ	330-338
10915.	23ng-1	АМРНІ	347-352
10916.	23ng-1	АМРНІ	378-386
10917.	23ng-1	АМРНІ	401-425
10918.	23ng-1	АМРНІ	434-437
10919.	23ng-1	АМРНІ	443-446
10920.	23ng-1	АМРНІ	474-481
10921.	23ng-1	АМРНІ	515-521
10922.	23ng-1	АМРНІ	561-572
10923.	23ng-1	АМРНІ	601-603
10924.	23ng-1	АМРНІ	613-622
10925.	23ng-1	АМРНІ	634-641
10926.	23ng-1	АМРНІ	643-645
10927.	23ng-1	АМРНІ	652-654
10928.	23ng-1	AMPHI	697-704
10929.	23ng-1	Antigenic Index	22-35
10930.	23ng-1	Antigenic Index	42-53
10931.	23ng-1	Antigenic Index	60-63
10932.	23ng-1	Antigenic Index	67-73
10933.	23ng-1	Antigenic Index	81-92
10934.	23ng-1	Antigenic Index	99-114
10935.	23ng-1	Antigenic Index	118-124
10936.	23ng-1	Antigenic Index	136-144
10937.	23ng-1	Antigenic Index	146-155

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10938.	23ng-1	Antigenic Index	159-169
10939.	23ng-1	Antigenic Index	173-184
10940.	23ng-1	Antigenic Index	186-196
10941.	23ng-1	Antigenic Index	202-216
10942.	23ng-1	Antigenic Index	220-237
10943.	23ng-1	Antigenic Index	245-251
10944.	23ng-1	Antigenic Index	253-266
10945.	23ng-1	Antigenic Index	274-277
10946.	23ng-1	Antigenic Index	282-289
10947.	23ng-1	Antigenic Index	291-299
10948.	23ng-1	Antigenic Index	306-332
10949.	23ng-1	Antigenic Index	341-344
10950.	23ng-1	Antigenic Index	354-361
10951.	23ng-1	Antigenic Index	366-369
10952.	23ng-1	Antigenic Index	372-379
10953.	23ng-1	Antigenic Index	387-399
10954.	23ng-1	Antigenic Index	401-405
10955.	23ng-1	Antigenic Index	407-420
10956.	23ng-1	Antigenic Index	426-435
10957.	23ng-1	Antigenic Index	441-446
10958.	23ng-1	Antigenic Index	452-470
10959.	23ng-1	Antigenic Index	477-483
10960.	23ng-1	Antigenic Index	506-517
10961.	23ng-1	Antigenic Index	519-534
10962.	23ng-1	Antigenic Index	536-539
10963.	23ng-1	Antigenic Index	544-552
10964.	23ng-1	Antigenic Index	554-565
10965.	23ng-1	Antigenic Index	569-590
10966.	23ng-1	Antigenic Index	593-617
10967.	23ng-1	Antigenic Index	625-651
10968.	23ng-1	Antigenic Index	653-671
10969.	23ng-1	Antigenic Index	681-689
10970.	23ng-1	Antigenic Index	691-693
10971.	23ng-1	Antigenic Index	695-711
10972.	23ng-1	Hydrophilicity	22-35
10973.	23ng-1	Hydrophilicity	42-51
10974.	23ng-1	Hydrophilicity	67-73
10975.	23ng-1	Hydrophilicity	81-92
10976.	23ng-1	Hydrophilicity	100-102
10977.	23ng-1	Hydrophilicity	106-112
10978.	23ng-1	Hydrophilicity	119-122
10978.	23ng-1	Hydrophilicity	136-142
10980.	23ng-1	Hydrophilicity	147-155
10980.	23ng-1	Hydrophilicity	161-169
10701.		rryuropinnicity	101-107

10982.	23ng-1	Hydrophilicity	173-184
10983.	23ng-1	Hydrophilicity	186-196
10983.		Hydrophilicity	206-208
	23ng-1 23ng-1		
10985.		Hydrophilicity	210-216
10986.	23ng-1	Hydrophilicity	221-236
10987.	23ng-1	Hydrophilicity	249-251
10988.	23ng-1	Hydrophilicity	258-266
10989.	23ng-1	Hydrophilicity	283-288
10990.	23ng-1	Hydrophilicity	293-299
10991.	23ng-1	Hydrophilicity	306-312
10992.	23ng-1	Hydrophilicity	314-329
10993.	23ng-1	Hydrophilicity	356-361
10994.	23ng-1	Hydrophilicity	372-379
10995.	23ng-1	Hydrophilicity	392-398
10996	23ng-1	Hydrophilicity	408-411
10997.	23ng-1	Hydrophilicity	428-434
10998.	23ng-1	Hydrophilicity	441-446
10999.	23ng-1	Hydrophilicity	455-461
11000.	23ng-1	Hydrophilicity	463-469
11001.	23ng-1	Hydrophilicity	507-514
11002.	23ng-1	Hydrophilicity	523-534
11003.	23ng-1	Hydrophilicity	536-539
11004.	23ng-1	Hydrophilicity	544-551
11005.	23ng-1	Hydrophilicity	555-561
11006.	23ng-1	Hydrophilicity	569-572
11007.	23ng-1	Hydrophilicity	580-582
11008.	23ng-1	Hydrophilicity	584-586
11009.	23ng-1	Hydrophilicity	595-617
11010	23ng-1	Hydrophilicity	628-635
11011.	23ng-1	Hydrophilicity	638-648
11012.	23ng-1	Hydrophilicity	656-671
11013.	23ng-1	Hydrophilicity	682-689
11014.	23ng-1	Hydrophilicity	700-709
11015.	24ng-1	AMPHI	34-38
11016.	24ng-1	АМРНІ	50-56
11017.	24ng-1	АМРНІ	72-90
11018.	24ng-1	AMPHI	106-108
11019.	24ng-1	AMPHI	116-122
11020.	24ng-1	AMPHI	135-153
11021.	24ng-1	AMPHI	194-209
11022.	24ng-1	AMPHI	222-230
11023.	24ng-1	AMPHI	269-273
11024.	24ng-1	Antigenic Index	34-42
11021.	24ng-1	Antigenic Index	53-57

11026.	24ng-1	Antigenic Index	62-70
11027.	24ng-1	Antigenic Index	72-79
11028.	24ng-1	Antigenic Index	93-96
11029.	24ng-1	Antigenic Index	105-135
11030.	24ng-1	Antigenic Index	141-153
11031.	24ng-1	Antigenic Index	172-174
11032.	24ng-1	Antigenic Index	179-187
11033.	24ng-1	Antigenic Index	192-199
11034.	24ng-1	Antigenic Index	219-224
11035.	24ng-1	Antigenic Index	265-278
11036.	24ng-1	Antigenic Index	281-293
11037.	24ng-1	Hydrophilicity	37-41
11038.	24ng-1	Hydrophilicity	64-70
11039.	24ng-1	Hydrophilicity	74-76
11040.	24ng-1	Hydrophilicity	110-121
11041.	24ng-1	Hydrophilicity	125-133
11042.	24ng-1	Hydrophilicity	141-149
11043.	24ng-1	Hydrophilicity	172-174
11044.	24ng-1	Hydrophilicity	181-185
11045.	24ng-1	Hydrophilicity	220-224
11046.	24ng-1	Hydrophilicity	266-278
11047.	24ng-1	Hydrophilicity	283-293
11048.	25ng-1	АМРНІ	21-46
11049.	25ng-1	АМРНІ	48-50
11050.	25ng-1	АМРНІ	53-55
11051.	25ng-1	АМРНІ	81-85
11052.	25ng-1	АМРНІ	105-107
11053.	25ng-1	АМРНІ	120-125
11054.	25ng-1	АМРНІ	141-143
11055.	25ng-1	АМРНІ	202-204
11056.	25ng-1	АМРНІ	207-211
11057.	25ng-1	АМРНІ	228-230
11058.	25ng-1	АМРНІ	239-241
11059.	25ng-1	АМРНІ	243-248
11060.	25ng-1	АМРНІ	269-278
11061.	25ng-1	AMPHI	280-282
11062.	25ng-1	AMPHI	297-301
11063.	25ng-1	AMPHI	312-314
11064.	25ng-1	Antigenic Index	17-30
11065.	25ng-1	Antigenic Index	35-67
11066.	25ng-1	Antigenic Index	79-89
11067.	25ng-1	Antigenic Index	99-111
11068.	25ng-1	Antigenic Index	118-120
11069.	25ng-1	Antigenic Index	124-138

11070.	25ng-1	Antigenic Index	147-155
11071.	25ng-1	Antigenic Index	182-194
11072.	25ng-1	Antigenic Index	196-215
11073.	25ng-1	Antigenic Index	218-225
11074.	25ng-1	Antigenic Index	227-248
11075.	25ng-1	Antigenic Index	250-270
11076.	25ng-1	Antigenic Index	274-312
11077.	25ng-1	Antigenic Index	319-331
11078.	25ng-1	Hydrophilicity	17-27
11079.	25ng-1	Hydrophilicity	35-41
11080.	25ng-1	Hydrophilicity	45-67
11081.	25ng-1	Hydrophilicity	79-88
11082.	25ng-1	Hydrophilicity	103-110
11083.	25ng-1	Hydrophilicity	127-130
11084.	25ng-1	Hydrophilicity	132-136
11085.	25ng-1	Hydrophilicity	147-155
11086.	25ng-1	Hydrophilicity	183-194
11087.	25ng-1	Hydrophilicity	196-215
11088.	25ng-1	Hydrophilicity	218-225
11089.	25ng-1	Hydrophilicity	227-248
11090.	25ng-1	Hydrophilicity	252-270
11091.	25ng-1	Hydrophilicity	277-312
11092.	25ng-1	Hydrophilicity	319-331
11093.	26ng-1	AMPHI	6-15
11094.	26ng-1	AMPHI	49-59
11095.	26ng-1	AMPHI_	86-91
11096.	26ng-1	AMPHI	98-108
11097.	26ng-1	AMPHI	111-113
11098.	26ng-1	AMPHI	115-117
11099.	26ng-1	AMPHI	126-144
11100.	26ng-1	AMPHI	173-185
11101.	26ng-1	AMPHI	188-190
11102.	26ng-1	AMPHI	193-220
11103.	26ng-1	AMPHI	227-233
11104.	26ng-1	AMPHI	240-243
11105.	26ng-1	AMPHI	265-273
11106.	26ng-1	AMPHI	283-290
11107.	26ng-1	AMPHI	317-322
11108.	26ng-1	AMPHI	324-327
11109.	26ng-1	AMPHI	346-348
11110.	26ng-1	AMPHI	356-365
11111.	26ng-1	AMPHI	387-391
11112.	26ng-1	AMPHI	429-433
11113.	26ng-1	AMPHI	447-457
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11114.	26ng-1	Antigenic Index	45-53
11115.	26ng-1	Antigenic Index	54-57
11116.	26ng-1	Antigenic Index	67-76
11117.	26ng-1	Antigenic Index	94-99
11118.	26ng-1	Antigenic Index	103-116
11119.	26ng-1	Antigenic Index	129-131
11120.	26ng-1	Antigenic Index	142-153
11121.	26ng-1	Antigenic Index	159-164
11122.	26ng-1	Antigenic Index	172-175
11123.	26ng-1	Antigenic Index	190-193
11124.	26ng-1	Antigenic Index	195-197
11125.	26ng-1	Antigenic Index	226-229
11126.	26ng-1	Antigenic Index	231-235
11127.	26ng-1	Antigenic Index	237-254
11128.	26ng-1	Antigenic Index	279-282
11129.	26ng-1	Antigenic Index	290-298
11130.	26ng-1	Antigenic Index	318-325
11131.	26ng-1	Antigenic Index	330-334
11132.	26ng-1	Antigenic Index	352-359
11133.	26ng-1	Antigenic Index	369-371
11134.	26ng-1	Antigenic Index	389-394
11135.	26ng-1	Antigenic Index	407-411
11136.	26ng-1	Antigenic Index	428-436
11137.	26ng-1	Antigenic Index	441-449
11138.	26ng-1	Antigenic Index	498-506
11139.	26ng-1	Hydrophilicity	54-57
11140.	26ng-1	Hydrophilicity	69-76
11141.	26ng-1	Hydrophilicity	103-114
11142.	26ng-1	Hydrophilicity	142-153
11143.	26ng-1	Hydrophilicity	231-235
11144.	26ng-1	Hydrophilicity	237-254
11145.	26ng-1	Hydrophilicity	291-295
11146.	26ng-1	Hydrophilicity	391-324
11147.	26ng-1	Hydrophilicity	407-411
11148.	26ng-1	Hydrophilicity	432-435
11149.	26ng-1	Hydrophilicity	443-446
11150.	26ng-1	Hydrophilicity	498-506
11151.	27ng-1	AMPHI	41-51
11152.	27ng-1	AMPHI	54-57
11153.	27ng-1	AMPHI	78-86
11154.	27ng-1	AMPHI	100-105
11155.	27ng-1	AMPHI	114-118
11156.	27ng-1	AMPHI	137-146
11157.	27ng-1	AMPHI	161-166
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11158.	27ng-1	AMPHI	186-190
11159.	27ng-1	AMPHI	193-199
11160.	27ng-1	Antigenic Index	1-5
11161.	27ng-1	Antigenic Index	30-35
11162.	27ng-1	Antigenic Index	63-70
11163.	27ng-1	Antigenic Index	86-88
11164.	27ng-1	Antigenic Index	96-114
11165.	27ng-1	Antigenic Index	117-126
11166.	27ng-1	Antigenic Index	130-162
11167.	27ng-1	Antigenic Index	167-174
11168.	27ng-1	Antigenic Index	178-185
11169.	27ng-1	Antigenic Index	188-197
11170.	27ng-1	Antigenic Index	199-209
11171.	27ng-1	Antigenic Index	213-242
11172.	27ng-1	Hydrophilicity	1-5
11173.	27ng-1	Hydrophilicity	33-35
11174.	27ng-1	Hydrophilicity	64-69
11175.	27ng-1	Hydrophilicity	98-103
11176.	27ng-1	Hydrophilicity	106-114
11177.	27ng-1	Hydrophilicity	121-126
11178.	27ng-1	Hydrophilicity	133-136
11179.	27ng-1	Hydrophilicity	144-159
11180.	27ng-1	Hydrophilicity	170-174
11181.	27ng-1	Hydrophilicity	178-185
11182.	27ng-1	Hydrophilicity	190-197
11183.	27ng-1	Hydrophilicity	199-209
11184.	27ng-1	Hydrophilicity	213-232
11185.	27ng-1	Hydrophilicity	234-242
11186.	28ng-1	AMPHI	21-34
11187.	28ng-1	AMPHI	78-95
11188.	28ng-1	AMPHI	97-99
11189.	28ng-1	АМРНІ	117-119
11190.	28ng-1	AMPHI	134-141
11191.	28ng-1	АМРНІ	187-190
11192.	28ng-1	Antigenic Index	5-7
11193.	28ng-1	Antigenic Index	25-31
11194.	28ng-1	Antigenic Index	34-46
11195.	28ng-1	Antigenic Index	51-62
11196.	28ng-1	Antigenic Index	74-81
11197.	28ng-1	Antigenic Index	88-104
11198.	28ng-1	Antigenic Index	113-125
11199.	28ng-1	Antigenic Index	128-145
11200.	28ng-1	Antigenic Index	147-157
11201.	28ng-1	Antigenic Index	161-180
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11202	201	A	102 100
11202.	28ng-1	Antigenic Index	183-188
11203.	28ng-1	Antigenic Index	193-202
11204.	28ng-1	Antigenic Index	232-237
11205.	28ng-1	Hydrophilicity	5-7
11206.	28ng-1	Hydrophilicity	35-46
11207.	28ng-1	Hydrophilicity	51-62
11208.	28ng-1	Hydrophilicity	75-81
11209.	28ng-1	Hydrophilicity	88-102
11210.	28ng-1	Hydrophilicity	113-117
11211.	28ng-1	Hydrophilicity	130-145
11212.	28ng-1	Hydrophilicity	147-153
11213.	28ng-1	Hydrophilicity	155-157
11214.	28ng-1	Hydrophilicity	161-167
11215.	28ng-1	Hydrophilicity	172-176
11216.	28ng-1	Hydrophilicity	178-180
11217.	28ng-1	Hydrophilicity	193-202
11218.	28ng-1	Hydrophilicity	233-237
11219.	29ng-1	AMPHI	25-27
11220.	29ng-1	АМРНІ	64-66
11221.	29ng-1	АМРНІ	103-108
11222.	29ng-1	АМРНІ	115-122
11223.	29ng-1	АМРНІ	129-136
11224.	29ng-1	АМРНІ	140-164
11225.	29ng-1	АМРНІ	221-244
11226.	29ng-1	АМРНІ	246-275
11227.	29ng-1	АМРНІ	298-307
11228.	29ng-1	AMPHI	342-346
11229.	29ng-1	АМРНІ	351-360
11230.	29ng-1	АМРНІ	367-376
11231.	29ng-1	AMPHI	383-397
11232.	29ng-1	AMPHI	426-436
11233.	29ng-1	AMPHI	454-458
11234.	29ng-1	Antigenic Index	25-37
11235.	29ng-1	Antigenic Index	53-62
11236.	29ng-1	Antigenic Index	80-88
11237.	29ng-1	Antigenic Index	96-103
11238.	29ng-1	Antigenic Index	105-125
11239.	29ng-1	Antigenic Index	131-162
11240.	29ng-1	Antigenic Index	166-175
11241.	29ng-1	Antigenic Index	182-194
11242.	29ng-1	Antigenic Index	200-206
11243.	29ng-1	Antigenic Index	210-229
11244.	29ng-1	Antigenic Index	260-262
11245.	29ng-1	Antigenic Index	268-279
11243.	4711g-1	1 Antigenic maex	400-417

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11246.	29ng-1	Antigenic Index	292-311
11247.	29ng-1	Antigenic Index	328-355
11248.	29ng-1	Antigenic Index	358-381
11249.	29ng-1	Antigenic Index	391-397
11250.	29ng-1	Antigenic Index	401-407
11251.	29ng-1	Antigenic Index	411-419
11252.	29ng-1	Antigenic Index	423-432
11253.	29ng-1	Antigenic Index	438-468
11254.	29ng-1	Antigenic Index	480-493
11255.	29ng-1	Hydrophilicity	29-46
11256.	29ng-1	Hydrophilicity	54-62
11257.	29ng-1	Hydrophilicity	80-86
11258.	29ng-1	Hydrophilicity	100-103
11259.	29ng-1	Hydrophilicity	107-118
11260.	29ng-1	Hydrophilicity	133-140
11261.	29ng-1	Hydrophilicity	142-148
11262.	29ng-1	Hydrophilicity	152-160
11263.	29ng-1	Hydrophilicity	168-175
11264.	29ng-1	Hydrophilicity	186-193
11265.	29ng-1	Hydrophilicity	200-206
11266.	29ng-1	Hydrophilicity	212-228
11267.	29ng-1	Hydrophilicity	292-294
11268.	29ng-1	Hydrophilicity	296-300
11269.	29ng-1	Hydrophilicity	303-305
11270.	29ng-1	Hydrophilicity	329-399
11271.	29ng-1	Hydrophilicity	347-355
11272.	29ng-1	Hydrophilicity	360-381
11273.	29ng-1	Hydrophilicity	392-397
11274.	29ng-1	Hydrophilicity	401-407
11275.	29ng-1	Hydrophilicity	412-418
11276.	29ng-1	Hydrophilicity	424-432
11277.	29ng-1	Hydrophilicity	438-444
11278.	29ng-1	Hydrophilicity	449-466
11279.	29ng-1	Hydrophilicity	482-492
11280.	30ng-1	АМРНІ	15-25
11281.	30ng-1	AMPHI	40-43
11282.	30ng-1	АМРНІ	64-69
11283.	30ng-1	AMPHI	72-74
11284.	30ng-1	AMPHI	80-100
11285.	30ng-1	AMPHI	103-121
11286.	30ng-1	АМРНІ	124-126
11287.	30ng-1	АМРНІ	135-145
11288.	30ng-1	AMPHI	147-155
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11289.	30ng-1	Antigenic Index	1-5

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11294.       30ng-1       Antigenic Index       81-94         11295.       30ng-1       Antigenic Index       97-104         11296.       30ng-1       Antigenic Index       113-125         11297.       30ng-1       Antigenic Index       127-179         11298.       30ng-1       Hydrophilicity       1-5         11299.       30ng-1       Hydrophilicity       26-29         11300.       30ng-1       Hydrophilicity       35-39         11301.       30ng-1       Hydrophilicity       46-56         11302.       30ng-1       Hydrophilicity       83-92         11303.       30ng-1       Hydrophilicity       102-104         11304.       30ng-1       Hydrophilicity       113-120         11305.       30ng-1       Hydrophilicity       133-136         11306.       30ng-1       Hydrophilicity       142-156         11307.       30ng-1       Hydrophilicity       159-179         11308.       31ng-1       AMPHI       24-31	
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11297.       30ng-1       Antigenic Index       127-179         11298.       30ng-1       Hydrophilicity       1-5         11299.       30ng-1       Hydrophilicity       26-29         11300.       30ng-1       Hydrophilicity       35-39         11301.       30ng-1       Hydrophilicity       46-56         11302.       30ng-1       Hydrophilicity       83-92         11303.       30ng-1       Hydrophilicity       102-104         11304.       30ng-1       Hydrophilicity       113-120         11305.       30ng-1       Hydrophilicity       133-136         11306.       30ng-1       Hydrophilicity       142-156         11307.       30ng-1       Hydrophilicity       159-179         11308.       31ng-1       AMPHI       24-31	
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11566.	46ng-1	AMPHI	473-478
11567.	46ng-1	АМРНІ	492-494
11568.	46ng-1	AMPHI	508-511
11569.	46ng-1	AMPHI	530-535
11570.	46ng-1	AMPHI	566-568
11571.	46ng-1	Antigenic Index	3-7
11572.	46ng-1	Antigenic Index	23-29
11573.	46ng-1	Antigenic Index	31-33
11574.	46ng-1	Antigenic Index	36-48
11575.	46ng-1	Antigenic Index	52-66
11576.	46ng-1	Antigenic Index	86-88
11577.	46ng-1	Antigenic Index	94-123
11578.	46ng-1	Antigenic Index	130-158
11579.	46ng-1	Antigenic Index	160-164
11580	46ng-1	Antigenic Index	173-191
11581.	46ng-1	Antigenic Index	199-220
11582.	46ng-1	Antigenic Index	229-231
11583.	46ng-1	Antigenic Index	243-247
11584.	46ng-1	Antigenic Index	249-257
11585	46ng-1	Antigenic Index	268-280
11586.	46ng-1	Antigenic Index	282-288
11587.	46ng-1	Antigenic Index	299-302
11588.	46ng-1	Antigenic Index	325-330
11589.	46ng-1	Antigenic Index	337-343
11590.	46ng-1	Antigenic Index	348-361
11591.	46ng-1	Antigenic Index	367-439
11592.	46ng-1	Antigenic Index	441-489
11593.	46ng-1	Antigenic Index	492-504
11594.	46ng-1	Antigenic Index	510-519
11595.	46ng-1	Antigenic Index	524-532
11596.	46ng-1	Antigenic Index	536-544
11597.	46ng-1	Antigenic Index	549-571

11598.	46ng-1	Antigenic Index	573-588
11599.	46ng-1	Antigenic Index	590-593
11600.	46ng-1	Antigenic Index	596-623
11601.	46ng-1	Hydrophilicity	3-7
11602.	46ng-1	Hydrophilicity	26-29
11603.	46ng-1	Hydrophilicity	31-33
11604.	46ng-1	Hydrophilicity	36-38
11605.	46ng-1	Hydrophilicity	40-47
11606.	46ng-1	Hydrophilicity	53-62
11607.	46ng-1	Hydrophilicity	94-99
11608.	46ng-1	Hydrophilicity	105-107
11609.	46ng-1	Hydrophilicity	109-120
11610.	46ng-1	Hydrophilicity	140-146
11611.	46ng-1	Hydrophilicity	154-158
11612.	46ng-1	Hydrophilicity	174-190
11613.	46ng-1	Hydrophilicity	202-220
11614.	46ng-1	Hydrophilicity	229-231
11615.	46ng-1	Hydrophilicity	251-255
11616.	46ng-1	Hydrophilicity	268-280
11617.	46ng-1	Hydrophilicity	282-288
11618.	46ng-1	Hydrophilicity	325-329
11619.	46ng-1	Hydrophilicity	338-343
11620.	46ng-1	Hydrophilicity	350-356
11621.	46ng-1	Hydrophilicity	359-361
11622.	46ng-1	Hydrophilicity	375-391
11623	46ng-1	Hydrophilicity	398-413
11624.	46ng-1	Hydrophilicity	417-421
11625.	46ng-1	Hydrophilicity	423-439
11626.	46ng-1	Hydrophilicity	444-489
11627.	46ng-1	Hydrophilicity	492-503
11628.	46ng-1	Hydrophilicity	512-519
11629.	46ng-1	Hydrophilicity	524-532
11630.	46ng-1	Hydrophilicity	537-543
11631.	46ng-1	Hydrophilicity	549-570
11632.	46ng-1	Hydrophilicity	577-588
11633.	46ng-1	Hydrophilicity	596-603
11634.	46ng-1	Hydrophilicity	607-612
11635.	46ng-1	Hydrophilicity	615-621
11636.	47ng-1	AMPHI	14-25
11637.	47ng-1	AMPHI	37-40
11638.	47ng-1	AMPHI	65-73
11639.	47ng-1	AMPHI	84-86
11640.	47ng-1	AMPHI	95-101
11641.	47ng-1	AMPHI	103-108

11649	1.5 1	LANGRAN	120.140
11642.	47ng-1	AMPHI	138-140
11643.	47ng-1	AMPHI	158-168
11644.	47ng-1	AMPHI	174-181
11645.	47ng-1	AMPHI	183-186
11646.	47ng-1	AMPHI	188-190
11647.	47ng-1	AMPHI	194-196
11648.	47ng-1	AMPHI	241-250
11649.	47ng-1	AMPHI	269-271
11650.	47ng-1	AMPHI	292-296
11651.	47ng-1	AMPHI	337-342
11652.	47ng-1	Antigenic Index	2-5
11653	47ng-1	Antigenic Index	33-35
11654.	47ng-1	Antigenic Index	37-43
11655.	47ng-1	Antigenic Index	71-80
11656.	47ng-1	Antigenic Index	99-101
11657.	47ng-1	Antigenic Index	126-134
11658.	47ng-1	Antigenic Index	144-146
11659.	47ng-1	Antigenic Index	155-158
11660.	47ng-1	Antigenic Index	189-204
11661.	47ng-1	Antigenic Index	251-253
11662.	47ng-1	Antigenic Index	311-315
11663.	47ng-1	Antigenic Index	318-322
11664.	47ng-1	Antigenic Index	344-347
11665.	47ng-1	Antigenic Index	350-356
11666.	47ng-1	Antigenic Index	375-384
11667.	47ng-1	Hydrophilicity	2-5
11668.	47ng-1	Hydrophilicity	75-78
11669.	47ng-1	Hydrophilicity	127-134
11670.	47ng-1	Hydrophilicity	191-194
11671.	47ng-1	Hydrophilicity	251-253
11672.	47ng-1	Hydrophilicity	352-354
11673.	47ng-1	Hydrophilicity	377-384
11674.	48ng-1	AMPHI	49-52
11675.	48ng-1	AMPHI_	68-81
11676.	48ng-1	AMPHI	96-102
11677.	48ng-1	AMPHI	111-115
11678.	48ng-1	AMPHI	143-149
11679.	48ng-1	AMPHI	158-161
11680.	48ng-1	AMPHI	164-166
11681.	48ng-1	AMPHI	198-200
11682.	48ng-1	AMPHI	212-218
11683.	48ng-1	AMPHI	220-222
11684.	48ng-1	AMPHI	245-249
11685.	48ng-1	AMPHI	275-277
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11686. 11687. 11688. 11689.	48ng-1 48ng-1	AMPHI	279-285
11688.	48ng-1		
		AMPHI	287-290
11689.	48ng-1	AMPHI	294-307
	48ng-1	AMPHI	309-311
11690.	48ng-1	AMPHI	320-323
11691.	48ng-1	АМРНІ	338-342
11692.	48ng-1	АМРНІ	352-354
11693.	48ng-1	AMPHI	356-358
11694.	48ng-1	АМРНІ	364-370
11695.	48ng-1	AMPHI	385-387
11696.	48ng-1	AMPHI	411-415
11697.	48ng-1	AMPHI	420-431
11698.	48ng-1	АМРНІ	447-460
11699.	48ng-1	Antigenic Index	14-17
11700.	48ng-1	Antigenic Index	134-141
11701.	48ng-1	Antigenic Index	142-149
11702.	48ng-1	Antigenic Index	174-178
11703.	48ng-1	Antigenic Index	190-193
11704.	48ng-1	Antigenic Index	208-225
11705.	48ng-1	Antigenic Index	233-243
11706.	48ng-1	Antigenic Index	251-258
11707.	48ng-1	Antigenic Index	261-264
11708.	48ng-1	Antigenic Index	272-278
11709.	48ng-1	Antigenic Index	289-300
11710.	48ng-1	Antigenic Index	302-311
11711.	48ng-1	Antigenic Index	318-325
11712.	48ng-1	Antigenic Index	328-342
11713.	48ng-1	Antigenic Index	344-349
11714.	48ng-1	Antigenic Index	355-363
11715.	48ng-1	Antigenic Index	369-377
11716.	48ng-1	Antigenic Index	385-394
11717.	48ng-1	Antigenic Index	397-405
11718.	48ng-1	Antigenic Index	407-413
11719.	48ng-1	Antigenic Index	426-438
11720.	48ng-1	Antigenic Index	443-454
11721.	48ng-1	Hydrophilicity	134-141
11722.	48ng-1	Hydrophilicity	164-168
11723.	48ng-1	Hydrophilicity	210-225
11724.	48ng-1	Hydrophilicity	240-243
11725.	48ng-1	Hydrophilicity	251-258
11726.	48ng-1	Hydrophilicity	272-287
11727.	48ng-1	Hydrophilicity	289-300
11728.	48ng-1	Hydrophilicity	302-315
11729.	48ng-1	Hydrophilicity	334-342

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11730.	48ng-1	Hydrophilicity	344-349
11731.	48ng-1	Hydrophilicity	360-363
11732.	48ng-1	Hydrophilicity	369-374
11733.	48ng-1	Hydrophilicity	378-390
11734.	48ng-1	Hydrophilicity	392-394
11735.	48ng-1	Hydrophilicity	397-402
11736.	48ng-1	Hydrophilicity	407-413
11737.	48ng-1	Hydrophilicity	426-438
11738.	48ng-1	Hydrophilicity	445-447
11739.	53ng-1	AMPHI	64-71
11740.	53ng-1	AMPHI	90-93
11741.	53ng-1	AMPHI	116-119
11742.	53ng-1	AMPHI	126-132
11743.	53ng-1	AMPHI	160-162
11744.	53ng-1	АМРНІ	170-175
11745	53ng-1	AMPHI	185-196
11746.	53ng-1	AMPHI	201-209
11747.	53ng-1	АМРНІ	212-214
11748.	53ng-1	AMPHI	223-240
11749.	53ng-1	AMPHI	271-290
11750.	53ng-1	АМРНІ	311-322
11751.	53ng-1	Antigenic Index	1-4
11752.	53ng-1	Antigenic Index	60-71
11753.	53ng-1	Antigenic Index	90-103
11754.	53ng-1	Antigenic Index	136-150
11755.	53ng-1	Antigenic Index	176-181
11756.	53ng-1	Antigenic Index	185-188
11757.	53ng-1	Antigenic Index	202-205
11758.	53ng-1	Antigenic Index	217-219
11759.	53ng-1	Antigenic Index	227-229
11760.	53ng-1	Antigenic Index	231-248
11761.	53ng-1	Antigenic Index	259-262
11762.	53ng-1	Antigenic Index	296-306
11763.	53ng-1	Hydrophilicity	1-3
11764.	53ng-1	Hydrophilicity	60-71
11765.	53ng-1	Hydrophilicity	94-96
11766.	53ng-1	Hydrophilicity	99-102
11767.	53ng-1	Hydrophilicity	137-150
11768.	53ng-1	Hydrophilicity	227-229
11769.	53ng-1	Hydrophilicity	231-247
11770.	53ng-1	Hydrophilicity	297-307
11771.	58ng-1	АМРНІ	33-33
11772.	58ng-1	АМРНІ	43-57
11773.	58ng-1	АМРНІ	78-84

11774.	58ng-1	AMPHI	109-111
11775.	58ng-1	АМРНІ	113-121
11776.	58ng-1	АМРНІ	128-133
11777.	58ng-1	АМРНІ	137-140
11778.	58ng-1	АМРНІ	157-160
11779.	58ng-1	АМРНІ	172-176
11780.	58ng-1	АМРНІ	183-190
11781.	58ng-1	AMPHI	196-205
11782.	58ng-1	АМРНІ	222-228
11783.	58ng-1	AMPHI	235-242
11784.	58ng-1	AMPHI	263-265
11785.	58ng-1	AMPHI	267-275
11786.	58ng-1	AMPHI	299-303
11787.	58ng-1	AMPHI	324-327
11788.	58ng-1	AMPHI	335-340
11789.	58ng-1	AMPHI	361-370
11790.	58ng-1	AMPHI	399-402
11791.	58ng-1	AMPHI	419-436
11792.	58ng-1	AMPHI	446-454
11793.	58ng-1	AMPHI	464-468
11794.	58ng-1	AMPHI	570-576
11795.	58ng-1	AMPHI	597-606
11796.	58ng-1	AMPHI	610-616
11797.	58ng-1	AMPHI	636-645
11798.	58ng-1	AMPHI	666-673
11799.	58ng-1	AMPHI	693-701
11800.	58ng-1	AMPHI	717-719
11801.	58ng-1	AMPHI	721-730
11802.	58ng-1	AMPHI	749-752
11803.	58ng-1	AMPHI	755-766
11804.	58ng-1	AMPHI	768-785
11805.	58ng-1	AMPHI	792-797
11806.	58ng-1	AMPHI	806-811
11807.	58ng-1	AMPHI	816-825
11808.	58ng-1	AMPHI	845-853
11809.	58ng-1	AMPHI	875-877
11810.	58ng-1	AMPHI	897-903
11811.	58ng-1	AMPHI	911-934
11812.	58ng-1	AMPHI	938-943
11813.	58ng-1	AMPHI	970-974
11814.		AMPHI	982-992
	58ng-1		
11815.	58ng-1	Antigenic Index	22-30
11816.	58ng-1	Antigenic Index	33-57
11817.	58ng-1	Antigenic Index	80-86

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11818.	58ng-1	Antigenic Index	88-142
11819.	58ng-1	Antigenic Index	145-160
11820.	58ng-1	Antigenic Index	162-175
11821.	58ng-1	Antigenic Index	178-188
11822.	58ng-1	Antigenic Index	191-222
11823.	58ng-1	Antigenic Index	227-238
11824.	58ng-1	Antigenic Index	241-256
11825.	58ng-1	Antigenic Index	258-267
11826.	58ng-1	Antigenic Index	271-330
11827.	58ng-1	Antigenic Index	332-362
11828.	58ng-1	Antigenic Index	370-373
11829.	58ng-1	Antigenic Index	375-389
11830.	58ng-1	Antigenic Index	396-407
11831.	58ng-1	Antigenic Index	409-412
11832.	58ng-1	Antigenic Index	414-417
11833.	58ng-1	Antigenic Index	419-429
11834.	58ng-1	Antigenic Index	431-445
11835.	58ng-1	Antigenic Index	450-490
11836.	58ng-1	Antigenic Index	492-523
11837.	58ng-1	Antigenic Index	526-529
11838.	58ng-1	Antigenic Index	538-551
11839.	58ng-1	Antigenic Index	554-569
11840.	58ng-1	Antigenic Index	571-574
11841.	58ng-1	Antigenic Index	581-594
11842.	58ng-1	Antigenic Index	596-603
11843.	58ng-1	Antigenic Index	614-620
11844.	58ng-1	Antigenic Index	626-635
11845.	58ng-1	Antigenic Index	641-652
11846.	58ng-1	Antigenic Index	657-663
11847.	58ng-1	Antigenic Index	668-671
11848.	58ng-1	Antigenic Index	680-688
11849.	58ng-1	Antigenic Index	700-706
11850.	58ng-1	Antigenic Index	711-715
11851.	58ng-1	Antigenic Index	734-736
11852.	58ng-1	Antigenic Index	747-753
11853.	58ng-1	Antigenic Index	766-795
11854.	58ng-1	Antigenic Index	806-808
11855.	58ng-1	Antigenic Index	813-822
11856.	58ng-1	Antigenic Index	825-831
11857.	58ng-1	Antigenic Index	840-847
11858.	58ng-1	Antigenic Index	854-858
11859.	58ng-1	Antigenic Index	864-874
11860.	58ng-1	Antigenic Index	884-887
11861.	58ng-1	Antigenic Index	892-901
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11862.	58ng-1	Antigenic Index	906-913
11863.	58ng-1	Antigenic Index	919-958
11864.	58ng-1	Antigenic Index	962-994
11865.	58ng-1	Antigenic Index	998-1006
11866.	58ng-1	Antigenic Index	1011-1014
11867.	58ng-1	Hydrophilicity	22-30
11868.	58ng-1	Hydrophilicity	33-55
11869.	58ng-1	Hydrophilicity	88-97
11870.	58ng-1	Hydrophilicity	100-142
11871.	58ng-1	Hydrophilicity	146-158
11872.	58ng-1	Hydrophilicity	162-170
11873.	58ng-1	Hydrophilicity	173-175
11874.	58ng-1	Hydrophilicity	178-188
11875.	58ng-1	Hydrophilicity	191-209
11876.	58ng-1	Hydrophilicity	211-220
11877.	58ng-1	Hydrophilicity	227-233
11878.	58ng-1	Hydrophilicity	241-255
11879.	58ng-1	Hydrophilicity	259-264
11880.	58ng-1	Hydrophilicity	271-277
11881.	58ng-1	Hydrophilicity	279-301
11882.	58ng-1	Hydrophilicity	304-307
11883.	58ng-1	Hydrophilicity	309-330
11884.	58ng-1	Hydrophilicity	332-362
11885.	58ng-1	Hydrophilicity	375-389
11886.	58ng-1	Hydrophilicity	397-402
11887.	58ng-1	Hydrophilicity	404-407
11888.	58ng-1	Hydrophilicity	423-425
11889.	58ng-1	Hydrophilicity	432-445
11890.	58ng-1	Hydrophilicity	453-473
11891.	58ng-1	Hydrophilicity	478-489
11892.	58ng-1	Hydrophilicity	494-523
11893.	58ng-1	Hydrophilicity	541-551
11894.	58ng-1	Hydrophilicity	554-569
11895.	58ng-1	Hydrophilicity	581-591
11896.	58ng-1	Hydrophilicity	596-603
11897.	58ng-1	Hydrophilicity	627-635
11898.	58ng-1	Hydrophilicity	644-652
11899.	58ng-1	Hydrophilicity	668-671
11900.	58ng-1	Hydrophilicity	682-688
11901.	58ng-1	Hydrophilicity	700-706
11902.	58ng-1	Hydrophilicity	713-715
11903.	58ng-1	Hydrophilicity	734-736
11904.	58ng-1	Hydrophilicity	747-753
11905.	58ng-1	Hydrophilicity	769-781

11906.	58ng-1	Hydrophilicity	787-795
11907.	58ng-1	Hydrophilicity	806-808
11907.		Hydrophilicity	814-822
	58ng-1		
11909.	58ng-1	Hydrophilicity	825-831
11910.	58ng-1	Hydrophilicity	841-845
11911.	58ng-1	Hydrophilicity	866-874
11912.	58ng-1	Hydrophilicity	906-913
11913.	58ng-1	Hydrophilicity	921-923
11914.	58ng-1	Hydrophilicity	925-928
11915.	58ng-1	Hydrophilicity	934-941
11916.	58ng-1	Hydrophilicity	943-958
11917	58ng-1	Hydrophilicity	962-968
11918.	58ng-1	Hydrophilicity	974-976
11919.	58ng-1	Hydrophilicity	982-994
11920.	58ng-1	Hydrophilicity	999-1004
11921.	61ng-1	AMPHI	7-28
11922.	61ng-1	AMPHI	37-53
11923.	61ng-1	AMPHI	55-77
11924.	61ng-1	AMPHI	98-100
11925.	61ng-1	АМРНІ	104-107
11926.	61ng-1	АМРНІ	124-133
11927.	61ng-1	АМРНІ	135-137
11928.	61ng-1	АМРНІ	155-160
11929.	61ng-1	АМРНІ	198-200
11930.	61ng-1	АМРНІ	219-230
11931.	61ng-1	АМРНІ	245-261
11932.	61ng-1	АМРНІ	265-269
11933.	61ng-1	AMPHI	274-276
11934.	61ng-1	АМРНІ	291-295
11935.	61ng-1	AMPHI	331-333
11936.	61ng-1	АМРНІ	362-374
11937.	61ng-1	АМРНІ	376-379
11938.	61ng-1	AMPHI	426-443
11939.	61ng-1	АМРНІ	496-498
11940.	61ng-1	AMPHI	511-522
11941.	61ng-1	AMPHI	537-539
11942.	61ng-1	AMPHI	541-543
11943.	61ng-1	AMPHI	550-559
11944.	61ng-1	AMPHI	567-569
11945.	61ng-1	АМРНІ	576-581
11946.	61ng-1	Antigenic Index	6-8
11947.	6lng-i	Antigenic Index	15-17
11948.	61ng-1	Antigenic Index	26-36
11949.	_61ng-1	Antigenic Index	38-41

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11950.	61ng-1	Antigenic Index	50-58
11951.	61ng-1	Antigenic Index	71-84
11952.	61ng-1	Antigenic Index	86-99
11953.	61ng-1	Antigenic Index	102-110
11954.	61ng-1	Antigenic Index	116-135
11955.	61ng-1	Antigenic Index	145-154
11956.	61ng-1	Antigenic Index	162-168
11957.	61ng-1	Antigenic Index	174-180
11958.	61ng-1	Antigenic Index	182-190
11959.	61ng-1	Antigenic Index	196-204
11960.	61ng-1	Antigenic Index	215-221
11961.	61ng-1	Antigenic Index	231-239
11962.	61ng-1	Antigenic Index	257-263
11963.	61ng-1	Antigenic Index	269-279
11964.	61ng-1	Antigenic Index	283-304
11965.	61ng-1	Antigenic Index	307-341
11966.	61ng-1	Antigenic Index	344-351
11967.	61ng-1	Antigenic Index	356-359
11968.	61ng-1	Antigenic Index	364-375
11969.	61ng-1	Antigenic Index	378-388
11970.	61ng-1	Antigenic Index	394-411
11971.	61ng-1	Antigenic Index	413-416
11972.	61ng-1	Antigenic Index	424-437
11973.	61ng-1	Antigenic Index	440-450
11974.	61ng-1	Antigenic Index	464-473
11975.	61ng-1	Antigenic Index	483-488
11976.	61ng-1	Antigenic Index	492-503
11977.	61ng-1	Antigenic Index	507-510
11978.	61ng-1	Antigenic Index	529-541
11979.	61ng-1	Antigenic Index	547-555
11980.	61ng-1	Antigenic Index	565-571
11981.	61ng-1	Antigenic Index	584-592
11982.	61ng-1	Hydrophilicity	15-17
11983.	61ng-1	Hydrophilicity	26-36
11984.	61ng-1	Hydrophilicity	50-55
11985.	61ng-1	Hydrophilicity	71-82
11986.	61ng-1	Hydrophilicity	86-99
11987.	61ng-1	Hydrophilicity	102-110
11988.	61ng-1	Hydrophilicity	118-135
11989.	61ng-1	Hydrophilicity	147-150
11990.	61ng-1	Hydrophilicity	162-167
11991.	61ng-1	Hydrophilicity	183-190
11992.	61ng-1	Hydrophilicity	196-202
11993.	61ng-1	Hydrophilicity	217-221

11994.   61ng-1				<del></del>
11996.   61ng-1   Hydrophilicity   270-279   11997.   61ng-1   Hydrophilicity   283-291   11998.   61ng-1   Hydrophilicity   293-302   11999.   61ng-1   Hydrophilicity   307-316   12000.   61ng-1   Hydrophilicity   320-339   12001.   61ng-1   Hydrophilicity   346-350   12002.   61ng-1   Hydrophilicity   367-372   12003.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   395-411   12005.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   424-434   12007.   61ng-1   Hydrophilicity   442-448   12009.   61ng-1   Hydrophilicity   443-488   12009.   61ng-1   Hydrophilicity   433-503   12010.   61ng-1   Hydrophilicity   433-503   12010.   61ng-1   Hydrophilicity   549-555   12012.   61ng-1   Hydrophilicity   549-555   12012.   61ng-1   Hydrophilicity   585-592   12014.   62ng-1   Hydrophilicity   585-592   12014.   62ng-1   AMPHI   6-8   12015.   62ng-1   AMPHI   38-57   12016.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   124-249   12020.   62ng-1   AMPHI   124-249   12020.   62ng-1   AMPHI   226-249   12021.   62ng-1   AMPHI   226-249   12022.   62ng-1   Antigenic Index   12-14   12025.   62ng-1   Antigenic Index   14-59   12025.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   12-14   12026.   62ng-1   Antigenic Index   12-14   12027.   62ng-1   Antigenic Index   12-14   12027.   62ng-1   Antigenic Index   132-141   12026.   62ng-1   Antigenic Index   132-141   12026.   62ng-1   Antigenic Index   12-14   12027.   62ng-1   Antigenic Index   132-141   12026.   62ng-1   Antigenic Index   12-14   12027.   62ng-1   Antigenic Index   12-14   12-14   12-14   12-14	11994.	61ng-1	Hydrophilicity	232-239
11997.   61ng-1   Hydrophilicity   285-291     11998.   61ng-1   Hydrophilicity   293-302     11999.   61ng-1   Hydrophilicity   307-316     12000.   61ng-1   Hydrophilicity   320-339     12001.   61ng-1   Hydrophilicity   346-350     12002.   61ng-1   Hydrophilicity   367-372     12003.   61ng-1   Hydrophilicity   378-386     12004.   61ng-1   Hydrophilicity   395-411     12005.   61ng-1   Hydrophilicity   395-411     12006.   61ng-1   Hydrophilicity   424-444     12007.   61ng-1   Hydrophilicity   442-448     12009.   61ng-1   Hydrophilicity   448-488     12009.   61ng-1   Hydrophilicity   483-488     12009.   61ng-1   Hydrophilicity   493-503     12010.   61ng-1   Hydrophilicity   529-541     12011.   61ng-1   Hydrophilicity   549-555     12012.   61ng-1   Hydrophilicity   549-555     12013.   61ng-1   Hydrophilicity   585-592     12014.   62ng-1   AMPHI   6-8     12015.   62ng-1   AMPHI   38-57     12016.   62ng-1   AMPHI   38-57     12017.   62ng-1   AMPHI   155-171     12018.   62ng-1   AMPHI   155-171     12019.   62ng-1   AMPHI   228-233     12019.   62ng-1   AMPHI   228-233     12019.   62ng-1   AMPHI   228-233     12020.   62ng-1   AMPHI   228-233     12021.   62ng-1   AMPHI   228-235     12022.   62ng-1   Antigenic Index   107-112     12023.   62ng-1   Antigenic Index   132-141     12024.   62ng-1   Antigenic Index   132-141     12025.   62ng-1   Antigenic Index   107-112     12026.   62ng-1   Antigenic Index   105-167     12027.   62ng-1   Antigenic Index   224-235     12028.   62ng-1   Antigenic Index   228-236     12029.   62ng-1   Antigenic Index   228-236     12020.   62ng-1   Antigenic Index   228-236     12021.   62ng-1   Antigenic Index   228-236     12022.   62ng-1   Antigenic Index   228-236     12023.   62ng-1   Antigenic Index   105-167     12024.   62ng-1   Antigenic Index   228-236     12025.   62ng-1   Antigenic Index   228-236     12026.   62ng-1   Antigenic Index   228-260     12027.   62ng-1   Antigenic Index   228-260     12028.   62ng-1   Hydrophilicity   45-59     12031.   62ng	11995.	61ng-1	Hydrophilicity	257-263
11998.   61ng-1   Hydrophilicity   293-302   11999.   61ng-1   Hydrophilicity   307-316   12000.   61ng-1   Hydrophilicity   320-339   12001.   61ng-1   Hydrophilicity   346-350   12002.   61ng-1   Hydrophilicity   367-372   12003.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   395-411   12005.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   442-448   12007.   61ng-1   Hydrophilicity   443-488   12007.   61ng-1   Hydrophilicity   483-488   12009.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   529-541   12011.   61ng-1   Hydrophilicity   529-541   12012.   61ng-1   Hydrophilicity   585-592   12014.   62ng-1   AMPHI   6-8   8   12015.   62ng-1   AMPHI   6-8   8   12015.   62ng-1   AMPHI   6-75   12017.   62ng-1   AMPHI   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   1228-233   12019.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   259-268   12021.   62ng-1   Amtjenic Index   12-14   12022.   62ng-1   Antjenic Index   14-59   12024.   62ng-1   Antjenic Index   132-141   12025.   62ng-1   Antjenic Index   14-59   12026.   62ng-1   Antjenic Index   12-14   12025.   62ng-1   Antjenic Index   160-163   12026.   62ng-1   Antjenic Index   12-14   12027.   62ng-1   Antjenic Index   12-14	11996.	61ng-1	Hydrophilicity	270-279
11998.   61ng-1   Hydrophilicity   293-302   11999.   61ng-1   Hydrophilicity   307-316   12000.   61ng-1   Hydrophilicity   320-339   12001.   61ng-1   Hydrophilicity   346-350   12002.   61ng-1   Hydrophilicity   367-372   12003.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   395-411   12005.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   442-448   12007.   61ng-1   Hydrophilicity   443-488   12007.   61ng-1   Hydrophilicity   483-488   12009.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   529-541   12011.   61ng-1   Hydrophilicity   529-541   12012.   61ng-1   Hydrophilicity   585-592   12014.   62ng-1   AMPHI   6-8   8   12015.   62ng-1   AMPHI   6-8   8   12015.   62ng-1   AMPHI   6-75   12017.   62ng-1   AMPHI   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   1228-233   12019.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   259-268   12021.   62ng-1   Amtjenic Index   12-14   12022.   62ng-1   Antjenic Index   14-59   12024.   62ng-1   Antjenic Index   132-141   12025.   62ng-1   Antjenic Index   14-59   12026.   62ng-1   Antjenic Index   12-14   12025.   62ng-1   Antjenic Index   160-163   12026.   62ng-1   Antjenic Index   12-14   12027.   62ng-1   Antjenic Index   12-14	11997.	61ng-1	Hydrophilicity	285-291
11999.   61ng-1   Hydrophilicity   307-316   12000.   61ng-1   Hydrophilicity   320-339   12001.   61ng-1   Hydrophilicity   346-350   12002.   61ng-1   Hydrophilicity   367-372   12003.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   395-411   12005.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   442-448   12007.   61ng-1   Hydrophilicity   442-448   12009.   61ng-1   Hydrophilicity   443-488   12009.   61ng-1   Hydrophilicity   483-488   12009.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   529-541   12011.   61ng-1   Hydrophilicity   549-555   12012.   61ng-1   Hydrophilicity   565-571   12013.   61ng-1   Hydrophilicity   565-571   12013.   61ng-1   Hydrophilicity   585-592   12014.   62ng-1   AMPHI   6-8   12015.   62ng-1   AMPHI   6-8   12015.   62ng-1   AMPHI   6-75   12017.   62ng-1   AMPHI   66-75   12017.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   246-249   12020.   62ng-1   AMPHI   246-249   12020.   62ng-1   AMPHI   259-268   12021.   62ng-1   Antigenic Index   12-14   12022.   62ng-1   Antigenic Index   12-14   12022.   62ng-1   Antigenic Index   107-112   12024.   62ng-1   Antigenic Index   107-112   12024.   62ng-1   Antigenic Index   12-14   12025.   62ng-1   Antigenic Index   160-163   12026.   62ng-1   Antigenic Index   165-167   12027.   62ng-1   Antigenic Index   12-14   12026.   62ng-1   Antigenic Index   12-14   12027.   62ng-1   Antigenic Index   12-14	11998.	61ng-1		293-302
12000.   61ng-1   Hydrophilicity   320-339   12001.   61ng-1   Hydrophilicity   346-350   12002.   61ng-1   Hydrophilicity   367-372   12003.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   395-411   12005.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   424-448   12007.   61ng-1   Hydrophilicity   464-470   12008.   61ng-1   Hydrophilicity   483-488   12009.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   529-541   12011.   61ng-1   Hydrophilicity   529-541   12011.   61ng-1   Hydrophilicity   549-555   12012.   61ng-1   Hydrophilicity   585-592   12014.   62ng-1   AMPHI   6-8   8   12015.   62ng-1   AMPHI   38-57   12016.   62ng-1   AMPHI   38-57   12017.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   1228-233   12019.   62ng-1   AMPHI   1228-233   12019.   62ng-1   AMPHI   1246-249   12020.   62ng-1   AMPHI   1259-268   12021.   62ng-1   AMPHI   1259-268   12021.   62ng-1   Antigenic Index   12-14   12022.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   132-141   12026.   62ng-1   Antigenic Index   1258-260   12027.   62ng-1   Antigenic Index   1258-260   12027.   62ng-1   Antigenic Index   1258-260   12029.   62ng-1   Antigenic Index   1258-260   12030.   62ng-1   Antigenic Index   1258-260   12030.   62ng-1   Antigenic Index   1258-260   12030.   62ng-1   Hydrophilicity   133-139   12033.   62ng-1	11999.		Hydrophilicity	307-316
12002. 61ng-1	12000.			320-339
12003.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   395-411   12005.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   442-448   12007.   61ng-1   Hydrophilicity   464-470   12008.   61ng-1   Hydrophilicity   464-470   12008.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   529-541   12011.   61ng-1   Hydrophilicity   549-555   12012.   61ng-1   Hydrophilicity   585-592   12014.   62ng-1   AMPHI   585-592   12014.   62ng-1   AMPHI   38-57   12015.   62ng-1   AMPHI   38-57   12016.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   246-249   12020.   62ng-1   AMPHI   246-249   12021.   62ng-1   AMPHI   259-268   12021.   62ng-1   AMPHI   259-268   12021.   62ng-1   Antigenic Index   12-14   12022.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   160-163   12026.   62ng-1   Antigenic Index   126-167   12027.   62ng-1   Antigenic Index   126-167   12027.   62ng-1   Antigenic Index   126-167   12027.   62ng-1   Antigenic Index   224-235   12028.   62ng-1   Antigenic Index   224-235   12029.   62ng-1   Antigenic Index   224-235   12030.   62ng-1   Hydrophilicity   133-139   12033.   62ng-1   Hydrophilicity   133-139   12034.   62ng-1   Hydrophilicity   160-163   12035.   62ng-1   Hydrophilicity   160-163   12036.   62ng-1   Hydrophilicity   120-12036.   62ng-1   Hydrophilicity   133-139   12036.   62ng-1   Hydrophilicity   120-12036.   62ng-1   Hydrophilicity   120-12036.   62ng-1   Hydrophilicity   120-12036.   62ng-1   Hydrophilicity   1	12001.	61ng-1	Hydrophilicity	346-350
12003.   61ng-1   Hydrophilicity   378-386   12004.   61ng-1   Hydrophilicity   395-411   12005.   61ng-1   Hydrophilicity   424-434   12006.   61ng-1   Hydrophilicity   442-448   12007.   61ng-1   Hydrophilicity   464-470   12008.   61ng-1   Hydrophilicity   464-470   12008.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   493-503   12010.   61ng-1   Hydrophilicity   529-541   12011.   61ng-1   Hydrophilicity   549-555   12012.   61ng-1   Hydrophilicity   585-592   12014.   62ng-1   AMPHI   585-592   12014.   62ng-1   AMPHI   38-57   12015.   62ng-1   AMPHI   38-57   12016.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   155-171   12018.   62ng-1   AMPHI   228-233   12019.   62ng-1   AMPHI   246-249   12020.   62ng-1   AMPHI   246-249   12021.   62ng-1   AMPHI   259-268   12021.   62ng-1   AMPHI   259-268   12021.   62ng-1   Antigenic Index   12-14   12022.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   132-141   12025.   62ng-1   Antigenic Index   160-163   12026.   62ng-1   Antigenic Index   126-167   12027.   62ng-1   Antigenic Index   126-167   12027.   62ng-1   Antigenic Index   126-167   12027.   62ng-1   Antigenic Index   224-235   12028.   62ng-1   Antigenic Index   224-235   12029.   62ng-1   Antigenic Index   224-235   12030.   62ng-1   Hydrophilicity   133-139   12033.   62ng-1   Hydrophilicity   133-139   12034.   62ng-1   Hydrophilicity   160-163   12035.   62ng-1   Hydrophilicity   160-163   12036.   62ng-1   Hydrophilicity   120-12036.   62ng-1   Hydrophilicity   133-139   12036.   62ng-1   Hydrophilicity   120-12036.   62ng-1   Hydrophilicity   120-12036.   62ng-1   Hydrophilicity   120-12036.   62ng-1   Hydrophilicity   1	12002.	61ng-1	Hydrophilicity	367-372
12004. 61ng-1	12003.		Hydrophilicity	378-386
12006.         61ng-1         Hydrophilicity         442-448           12007.         61ng-1         Hydrophilicity         464-470           12008.         61ng-1         Hydrophilicity         483-488           12009.         61ng-1         Hydrophilicity         493-503           12010.         61ng-1         Hydrophilicity         529-541           12011.         61ng-1         Hydrophilicity         549-555           12012.         61ng-1         Hydrophilicity         585-592           12013.         61ng-1         Hydrophilicity         585-592           12014.         62ng-1         AMPHI         6-8           12015.         62ng-1         AMPHI         38-57           12016.         62ng-1         AMPHI         155-171           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         14-59 <tr< td=""><td>12004.</td><td></td><td>Hydrophilicity</td><td>395-411</td></tr<>	12004.		Hydrophilicity	395-411
12006.         61ng-1         Hydrophilicity         442-448           12007.         61ng-1         Hydrophilicity         464-470           12008.         61ng-1         Hydrophilicity         483-488           12009.         61ng-1         Hydrophilicity         493-503           12010.         61ng-1         Hydrophilicity         529-541           12011.         61ng-1         Hydrophilicity         549-555           12012.         61ng-1         Hydrophilicity         585-592           12013.         61ng-1         Hydrophilicity         585-592           12014.         62ng-1         AMPHI         6-8           12015.         62ng-1         AMPHI         38-57           12016.         62ng-1         AMPHI         155-171           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         14-59 <tr< td=""><td>12005.</td><td>61ng-1</td><td>Hydrophilicity</td><td>424-434</td></tr<>	12005.	61ng-1	Hydrophilicity	424-434
12008.         61ng-1         Hydrophilicity         483-488           12009.         61ng-1         Hydrophilicity         493-503           12010.         61ng-1         Hydrophilicity         529-541           12011.         61ng-1         Hydrophilicity         549-555           12012.         61ng-1         Hydrophilicity         565-571           12013.         61ng-1         Hydrophilicity         585-592           12014.         62ng-1         AMPHI         6-8           12015.         62ng-1         AMPHI         38-57           12016.         62ng-1         AMPHI         155-171           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         14-59           12023.         62ng-1         Antigenic Index         132-141           12025.         62ng-1         Antigenic Index         160-163      <	12006.	61ng-1		442-448
12009.         61ng-1         Hydrophilicity         493-503           12010.         61ng-1         Hydrophilicity         529-541           12011.         61ng-1         Hydrophilicity         549-555           12012.         61ng-1         Hydrophilicity         565-571           12013.         61ng-1         Hydrophilicity         585-592           12014.         62ng-1         AMPHI         6-8           12015.         62ng-1         AMPHI         38-57           12016.         62ng-1         AMPHI         155-171           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         107-112           12023.         62ng-1         Antigenic Index         132-141           12025.         62ng-1         Antigenic Index         160-163           12026.         62ng-1         Antigenic Index         258-260	12007.	61ng-1		464-470
12009.         61ng-1         Hydrophilicity         493-503           12010.         61ng-1         Hydrophilicity         529-541           12011.         61ng-1         Hydrophilicity         549-555           12012.         61ng-1         Hydrophilicity         565-571           12013.         61ng-1         Hydrophilicity         585-592           12014.         62ng-1         AMPHI         6-8           12015.         62ng-1         AMPHI         38-57           12016.         62ng-1         AMPHI         155-171           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         107-112           12023.         62ng-1         Antigenic Index         132-141           12025.         62ng-1         Antigenic Index         160-163           12026.         62ng-1         Antigenic Index         258-260	12008.		Hydrophilicity	483-488
12010.         61ng-1         Hydrophilicity         529-541           12011.         61ng-1         Hydrophilicity         549-555           12012.         61ng-1         Hydrophilicity         565-571           12013.         61ng-1         Hydrophilicity         585-592           12014.         62ng-1         AMPHI         6-8           12015.         62ng-1         AMPHI         38-57           12016.         62ng-1         AMPHI         155-171           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         14-59           12023.         62ng-1         Antigenic Index         132-141           12025.         62ng-1         Antigenic Index         160-163           12026.         62ng-1         Antigenic Index         258-260	12009.			493-503
12012.       61ng-1       Hydrophilicity       565-571         12013.       61ng-1       Hydrophilicity       585-592         12014.       62ng-1       AMPHI       6-8         12015.       62ng-1       AMPHI       38-57         12016.       62ng-1       AMPHI       155-171         12017.       62ng-1       AMPHI       155-171         12018.       62ng-1       AMPHI       228-233         12019.       62ng-1       AMPHI       246-249         12020.       62ng-1       AMPHI       259-268         12021.       62ng-1       Antigenic Index       12-14         12022.       62ng-1       Antigenic Index       107-112         12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59	12010.	61ng-1	Hydrophilicity	529-541
12013.         61ng-1         Hydrophilicity         585-592           12014.         62ng-1         AMPHI         6-8           12015.         62ng-1         AMPHI         38-57           12016.         62ng-1         AMPHI         66-75           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         107-112           12023.         62ng-1         Antigenic Index         107-112           12024.         62ng-1         Antigenic Index         132-141           12025.         62ng-1         Antigenic Index         160-163           12026.         62ng-1         Antigenic Index         165-167           12027.         62ng-1         Antigenic Index         224-235           12028.         62ng-1         Antigenic Index         279-289           12030.         62ng-1         Hydrophilicity         109-112	12011.	61ng-1	Hydrophilicity	549-555
12014.       62ng-1       AMPHI       6-8         12015.       62ng-1       AMPHI       38-57         12016.       62ng-1       AMPHI       66-75         12017.       62ng-1       AMPHI       155-171         12018.       62ng-1       AMPHI       228-233         12019.       62ng-1       AMPHI       246-249         12020.       62ng-1       AMPHI       259-268         12021.       62ng-1       Antigenic Index       12-14         12022.       62ng-1       Antigenic Index       44-59         12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139	12012.	61ng-1	Hydrophilicity	565-571
12015.         62ng-1         AMPHI         38-57           12016.         62ng-1         AMPHI         66-75           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         44-59           12023.         62ng-1         Antigenic Index         107-112           12024.         62ng-1         Antigenic Index         132-141           12025.         62ng-1         Antigenic Index         165-163           12026.         62ng-1         Antigenic Index         24-235           12027.         62ng-1         Antigenic Index         258-260           12028.         62ng-1         Antigenic Index         279-289           12030.         62ng-1         Hydrophilicity         45-59           12031.         62ng-1         Hydrophilicity         109-112           12032.         62ng-1         Hydrophilicity         165-167	12013.	61ng-1	Hydrophilicity	585-592
12016.         62ng-1         AMPHI         66-75           12017.         62ng-1         AMPHI         155-171           12018.         62ng-1         AMPHI         228-233           12019.         62ng-1         AMPHI         246-249           12020.         62ng-1         AMPHI         259-268           12021.         62ng-1         Antigenic Index         12-14           12022.         62ng-1         Antigenic Index         44-59           12023.         62ng-1         Antigenic Index         107-112           12024.         62ng-1         Antigenic Index         132-141           12025.         62ng-1         Antigenic Index         160-163           12026.         62ng-1         Antigenic Index         165-167           12027.         62ng-1         Antigenic Index         224-235           12028.         62ng-1         Antigenic Index         279-289           12030.         62ng-1         Hydrophilicity         45-59           12031.         62ng-1         Hydrophilicity         109-112           12032.         62ng-1         Hydrophilicity         133-139           12033.         62ng-1         Hydrophilicity         165-	12014.	62ng-1	АМРНІ	6-8
12017.       62ng-1       AMPHI       155-171         12018.       62ng-1       AMPHI       228-233         12019.       62ng-1       AMPHI       246-249         12020.       62ng-1       AMPHI       259-268         12021.       62ng-1       Antigenic Index       12-14         12022.       62ng-1       Antigenic Index       44-59         12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       166-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       165-167         12034.       62ng-1       Hydrophilicity       16	12015.	62ng-1	АМРНІ	38-57
12018.       62ng-1       AMPHI       228-233         12019.       62ng-1       AMPHI       246-249         12020.       62ng-1       AMPHI       259-268         12021.       62ng-1       Antigenic Index       12-14         12022.       62ng-1       Antigenic Index       44-59         12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity	12016.	62ng-1	АМРНІ	66-75
12019.       62ng-1       AMPHI       246-249         12020.       62ng-1       AMPHI       259-268         12021.       62ng-1       Antigenic Index       12-14         12022.       62ng-1       Antigenic Index       44-59         12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity	12017.	62ng-1	АМРНІ	155-171
12020.       62ng-1       AMPHI       259-268         12021.       62ng-1       Antigenic Index       12-14         12022.       62ng-1       Antigenic Index       44-59         12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12018.	62ng-1	АМРНІ	228-233
12021.       62ng-1       Antigenic Index       12-14         12022.       62ng-1       Antigenic Index       44-59         12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       224-235         12027.       62ng-1       Antigenic Index       258-260         12028.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12019.	62ng-1	АМРНІ	246-249
12022.       62ng-1       Antigenic Index       44-59         12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12020.	62ng-1	АМРНІ	259-268
12023.       62ng-1       Antigenic Index       107-112         12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12021.	62ng-1	Antigenic Index	12-14
12024.       62ng-1       Antigenic Index       132-141         12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12022.	62ng-1	Antigenic Index	44-59
12025.       62ng-1       Antigenic Index       160-163         12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12023.	62ng-1	Antigenic Index	107-112
12026.       62ng-1       Antigenic Index       165-167         12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12024.	62ng-1	Antigenic Index	132-141
12027.       62ng-1       Antigenic Index       224-235         12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12025.	62ng-1	Antigenic Index	160-163
12028.       62ng-1       Antigenic Index       258-260         12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12026.	62ng-1	Antigenic Index	165-167
12029.       62ng-1       Antigenic Index       279-289         12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12027.	62ng-1	Antigenic Index	224-235
12030.       62ng-1       Hydrophilicity       45-59         12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12028.	62ng-1	Antigenic Index	258-260
12031.       62ng-1       Hydrophilicity       109-112         12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12029.	62ng-1	Antigenic Index	279-289
12032.       62ng-1       Hydrophilicity       133-139         12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12030.	62ng-1	Hydrophilicity	45-59
12033.       62ng-1       Hydrophilicity       160-163         12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12031.	62ng-1	Hydrophilicity	109-112
12034.       62ng-1       Hydrophilicity       165-167         12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12032.	62ng-1	Hydrophilicity	133-139
12035.       62ng-1       Hydrophilicity       227-229         12036.       62ng-1       Hydrophilicity       231-233	12033.	62ng-1	Hydrophilicity	160-163
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12060.	64ng-1	AMPHI	600-617
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12129.	64ng-1	Hydrophilicity	608-633
12130.	64ng-1	Hydrophilicity	639-646
12131.	64ng-1	Hydrophilicity	657-663
12132.	64ng-1	Hydrophilicity	674-676
12133.	64ng-1	Hydrophilicity	678-680
12134.	64ng-1	Hydrophilicity	682-690
12135.	64ng-1	Hydrophilicity	700-703
12136.	65ng-1	AMPHI	7-12
12137.	65ng-1	АМРНІ	15-21
12138.	65ng-1	АМРНІ	44-46
12139.	65ng-1	AMPHI	73-80
12140.	65ng-1	AMPHI	82-95
12141.	65ng-1	AMPHI	103-107
12142.	65ng-1	AMPHI	111-114
12143.	65ng-1	АМРНІ	156-169
12144.	65ng-1	АМРНІ	179-183
12145.	65ng-1	АМРНІ	190-194
12146.	65ng-1	АМРНІ	196-212
12147.	65ng-1	АМРНІ	216-230
12148.	65ng-1	АМРНІ	252-258
12149.	65ng-1	АМРНІ	265-276
12150.	65ng-1	Hydrophilicity	6-12
12151.	65ng-1	Hydrophilicity	46-182
12152.	65ng-1	Hydrophilicity	189-207
12153.	65ng-1	Hydrophilicity	227-235
12154.	65ng-1	Hydrophilicity	266-279
12155.	65ng-1	Hydrophilicity	285-290
12156.	66ng-1	АМРНІ	39-43
12157.	66ng-1	АМРНІ	59-67
12158.	66ng-1	АМРНІ	81-88
12159.	66ng-1	АМРНІ	94-107
12160.	66ng-1	АМРНІ	118-135
12161.	66ng-1	АМРНІ	149-154
12162.	66ng-1	АМРНІ	177-179
12163.	66ng-1	AMPHI	199-207
12164.	66ng-1	Antigenic Index	7-10
12165.	66ng-1	Antigenic Index	65-68
12166.	66ng-1	Antigenic Index	92-95
12167.	66ng-1	Antigenic Index	131-136
12168.	66ng-1	Antigenic Index	166-171
12169.	66ng-1	Antigenic Index	205-210

12170.	66ng-1	Antigenic Index	213-228
		Hydrophilicity	8-10
12171.	66ng-1		
12172.	66ng-1	Hydrophilicity	131-136
12173.	66ng-1	Hydrophilicity	166-171
12174.	66ng-1	Hydrophilicity	208-210
12175.	66ng-1	Hydrophilicity	213-223
12176.	72ng-1	AMPHI	32-36
12177.	72ng-1	AMPHI	43-52
12178.	72ng-1	AMPHI	59-69
12179.	72ng-1	AMPHI	94-104
12180.	72ng-1	AMPHI	121-129
12181.	72ng-1	Antigenic Index	5-7
12182.	72ng-1	Antigenic Index	26-30
12183.	72ng-1	Antigenic Index	32-35
12184.	72ng-1	Antigenic Index	40-47
12185.	72ng-1	Antigenic Index	51-67
12186.	72ng-1	Antigenic Index	73-81
12187.	72ng-1	Antigenic Index	87-89
12188.	72ng-1	Antigenic Index	95-108
12189.	72ng-1	Antigenic Index	125-145
12190.	72ng-1	Hydrophilicity	32-35
12191.	72ng-1	Hydrophilicity	41-47
12192.	72ng-1	Hydrophilicity	61-64
12193.	72ng-1	Hydrophilicity	75-81
12194.	72ng-1	Hydrophilicity	87-89
12195.	72ng-1	Hydrophilicity	98-104
12196.	72ng-1	Hydrophilicity	106-108
12197.	72ng-1	Hydrophilicity	125-145
12198.	73ng-1	АМРНІ	15-17
12199.	73ng-1	АМРНІ	23-26
12200.	73ng-1	АМРНІ	37-41
12201.	73ng-1	AMPHI	50-53
12202.	73ng-1	АМРНІ	63-65
12203.	73ng-1	АМРНІ	91-96
12204.	73ng-1	АМРНІ	116-119
12205.	73ng-1	AMPHI	143-145
12206.	73ng-1	AMPHI	147-151
12207.	73ng-1	Antigenic Index	25-30
12208.	73ng-1	Antigenic Index	60-68
12209.	73ng-1	Antigenic Index	103-105
12210.	73ng-1	Antigenic Index	110-116
12211.	73ng-1	Antigenic Index	120-161
12212.	73ng-1	Hydrophilicity	60-66
12213.	73ng-1	Hydrophilicity	122-137

12214.	73ng-1	Hydrophilicity	140-161
12215.	74ng-1	AMPHI	4-11
12216.	74ng-1	AMPHI	23-29
12217.	74ng-1	АМРНІ	35-39
12218.	74ng-1	АМРНІ	56-59
12219.	74ng-1	AMPHI	66-68
12220.	74ng-1	АМРНІ	71-73
12221.	74ng-1	AMPHI	82-85
12222.	74ng-1	АМРНІ	93-97
12223.	74ng-1	AMPHI	109-114
12224.	74ng-1	АМРНІ	130-132
12225.	74ng-1	AMPHI	160-165
12226.	74ng-1	АМРНІ	175-177
12227.	74ng-1	АМРНІ	182-189
12228.	74ng-1	AMPHI	199-208
12229.	74ng-1	АМРНІ	211-217
12230.	74ng-1	AMPHI	244-252
12231.	74ng-1	АМРНІ	254-256
12232.	74ng-1	АМРНІ	260-262
12233.	74ng-1	AMPHI	265-267
12234.	74ng-1	Antigenic Index	5-14
12235.	74ng-1	Antigenic Index	40-52
12236.	74ng-1	Antigenic Index	67-80
12237.	74ng-1	Antigenic Index	86-88
12238.	74ng-1	Antigenic Index	94-101
12239.	74ng-1	Antigenic Index	104-118
12240.	74ng-1	Antigenic Index	139-160
12241.	74ng-1	Antigenic Index	175-178
12242.	74ng-1	Antigenic Index	190-197
12243.	74ng-1	Antigenic Index	199-205
12244.	74ng-1	Antigenic Index	209-213
12245.	74ng-1	Antigenic Index	221-230
12246.	74ng-1	Antigenic Index	238-252
12247.	74ng-1	Antigenic Index	261-267
12248.	74ng-1	Antigenic Index	269-271
12249.	74ng-1	Antigenic Index	273-281
12250.	74ng-1	Antigenic Index	288-291
12251.	74ng-1	Hydrophilicity	5-13
12252.	74ng-1	Hydrophilicity	40-52
12253.	74ng-1	Hydrophilicity	67-80
12254.	74ng-1	Hydrophilicity	95-99
12255.	74ng-1	Hydrophilicity	105-117
12256.	74ng-1	Hydrophilicity	152-160
12257.	74ng-1	Hydrophilicity	175-177

12258.	74ng-1	Hydrophilicity	190-197
12259.	74ng-1	Hydrophilicity	199-204
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12260.	74ng-1	Hydrophilicity	223-230
12261.	74ng-1	Hydrophilicity	238-252
12262.	74ng-1	Hydrophilicity	261-263
12263.	74ng-1	Hydrophilicity	265-267
12264.	74ng-1	Hydrophilicity	269-271
12265.	74ng-1	Hydrophilicity	273-281
12266.	74ng-1	Hydrophilicity	288-291
12267.	75ng-1	AMPHI	4-11
12268.	75ng-1	AMPHI	23-29
12269.	75ng-1	AMPHI	35-39
12270.	75ng-1	AMPHI	56-59
12271.	75ng-1	AMPHI	66-68
12272.	75ng-1	AMPHI	71-73
12273.	75ng-1	AMPHI	82-85
12274.	75ng-1	AMPHI	93-97
12275.	75ng-1	АМРНІ	109-114
12276.	75ng-1	АМРНІ	130-132
12277.	75ng-1	AMPHI	160-165
12278.	75ng-1	АМРНІ	175-177
12279.	75ng-1	АМРНІ	182-189
12280.	75ng-1	AMPHI	199-208
12281.	75ng-1	АМРНІ	211-217
12282.	75ng-1	AMPHI	244-252
12283.	75ng-1	АМРНІ	254-256
12284.	75ng-1	AMPHI	260-262
12285.	75ng-1	АМРНІ	265-267
12286.	75ng-1	Antigenic Index	5-14
12287.	75ng-1	Antigenic Index	40-52
12288.	75ng-1	Antigenic Index	67-80
12289.	75ng-1	Antigenic Index	86-88
12290.	75ng-1	Antigenic Index	94-101
12291.	75ng-1	Antigenic Index	104-118
12292.	75ng-1	Antigenic Index	139-160
12293.	75ng-1	Antigenic Index	175-178
12294.	75ng-1	Antigenic Index	190-197
12295.	75ng-1	Antigenic Index	199-205
12296.	75ng-1	Antigenic Index	209-213
12297.	75ng-1	Antigenic Index	221-230
12298.	75ng-1	Antigenic Index	238-252
12299.	75ng-1	Antigenic Index	261-267
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12300.	75ng-1	Antigenic Index	269-271

12202	75na 1	Antigonia Indov	288-291
12302.	75ng-1	Antigenic Index	5-13
12303.	75ng-1	Hydrophilicity	
12304.	75ng-1	Hydrophilicity	40-52
12305.	75ng-1	Hydrophilicity	67-80
12306.	75ng-1	Hydrophilicity	95-99
12307.	75ng-1	Hydrophilicity	105-117
12308.	75ng-1	Hydrophilicity	152-160
12309.	75ng-1	Hydrophilicity	175-177
12310.	75ng-1	Hydrophilicity	190-197
12311.	75ng-1	Hydrophilicity	199-204
12312.	75ng-1	Hydrophilicity	223-230
12313.	75ng-1	Hydrophilicity	238-252
12314.	75ng-1	Hydrophilicity	261-263
12315.	75ng-1	Hydrophilicity	265-267
12316.	75ng-1	Hydrophilicity	269-271
12317.	75ng-1	Hydrophilicity	273-281
12318.	75ng-1	Hydrophilicity	288-291
12319.	76ng-1	АМРНІ	11-20
12320.	76ng-1	АМРНІ	31-40
12321.	76ng-1	АМРНІ	42-49
12322.	76ng-1	АМРНІ	62-71
12323.	76ng-1	АМРНІ	76-79
12324.	76ng-1	АМРНІ	101-106
12325.	76ng-1	AMPHI	115-120
12326.	76ng-1	AMPHI	123-129
12327.	76ng-1	АМРНІ	139-144
12328.	76ng-1	АМРНІ	155-161
12329.	76ng-1	AMPHI	168-170
12330.	76ng-1	АМРНІ	176-189
12331.	76ng-1	АМРНІ	194-200
12332.	76ng-1	АМРНІ	221-224
12333.	76ng-1	АМРНІ	226-231
12334.	76ng-1	Antigenic Index	1-7
12335.	76ng-1	Antigenic Index	22-30
12336.	76ng-1	Antigenic Index	41-67
12337.	76ng-1	Antigenic Index	69-94
12338.	76ng-1	Antigenic Index	101-113
12339.	76ng-1	Antigenic Index	115-117
12340.	76ng-1	Antigenic Index	123-126
12341.	76ng-1	Antigenic Index	136-144
12342.	76ng-1	Antigenic Index	156-168
12343.	76ng-1	Antigenic Index	176-181
12344.	76ng-1	Antigenic Index	187-203
12345.	76ng-1	Antigenic Index	213-220

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12346.	76ng-1	Antigenic Index	222-241
12347.	76ng-1	Antigenic Index	243-252
12348.	76ng-1	Hydrophilicity	1-7
12349.	76ng-1	Hydrophilicity	22-30
12350.	76ng-1	Hydrophilicity	41-67
12351.	76ng-1	Hydrophilicity	69-94
12352.	76ng-1	Hydrophilicity	101-113
12353.	76ng-1	Hydrophilicity	115-117
12354.	76ng-1	Hydrophilicity	123-126
12355.	76ng-1	Hydrophilicity	136-144
12356.	76ng-1	Hydrophilicity	156-168
12357.	76ng-1	Hydrophilicity	189-202
12358.	76ng-1	Hydrophilicity	213-220
12359.	76ng-1	Hydrophilicity	222-241
12360.	76ng-1	Hydrophilicity	243-252
12361.	77ng-1	AMPHI	13-18
12362.	77ng-1	AMPHI	25-28
12363.	77ng-1	AMPHI	31-35
12364.	77ng-1	АМРНІ	38-44
12365.	77ng-1	AMPHI	50-52
12366.	77ng-1	AMPHI	56-58
12367.	77ng-1	AMPHI	76-78
12368.	77ng-1	AMPHI	86-88
12369.	77ng-1	AMPHI	103-104
12370.	77ng-1	АМРНІ	111-114
12371.	77ng-1	AMPHI	124-126
12372.	77ng-1	AMPHI	131-134
12373.	77ng-1	AMPHI	170-177
12374.	77ng-1	AMPHI	191-203
12375.	77ng-1	Antigenic Index	22-31
12376.	77ng-1	Antigenic Index	34-44
12377.	77ng-1	Antigenic Index	80-94
12378.	77ng-1	Antigenic Index	101-104
12379.	77ng-1	Antigenic Index	155-158
12380.	77ng-1	Antigenic Index	167-181
12381.	77ng-1	Hydrophilicity	22-28
12382.	77ng-1	Hydrophilicity	38-44
12383.	77ng-1	Hydrophilicity	80-92
12384.	77ng-1	Hydrophilicity	171-178
12385.	78ng-1	AMPHI	4-6
12386.	78ng-1	AMPHI	42-44
12387.	78ng-1	AMPHI	58-61
12388.	78ng-1	AMPHI	78-80
12389.	78ng-1	AMPHI	84-89
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12390.	78ng-1	AMPHI	93-96
12391.	78ng-1	АМРНІ	98-105
12392.	78ng-1	AMPHI	113-117
12393.	78ng-1	AMPHI	141-147
12394.	78ng-1	AMPHI	169-175
12395.	78ng-1	AMPHI	183-186
12396.	78ng-1	АМРНІ	200-202
12397.	78ng-1	AMPHI	210-226
12398.	78ng-1	Antigenic Index	25-27
12399.	78ng-1	Antigenic Index	30-35
12400.	78ng-1	Antigenic Index	46-49
12401.	78ng-1	Antigenic Index	63-65
12402.	78ng-1	Antigenic Index	79-81
12403.	78ng-1	Antigenic Index	89-106
12404.	78ng-1	Antigenic Index	115-118
12405.	78ng-1	Antigenic Index	128-133
12406.	78ng-1	Antigenic Index	157-160
12407.	78ng-1	Antigenic Index	194-199
12408.	78ng-1	Antigenic Index	205-227
12409.	78ng-1	Hydrophilicity	30-35
12410.	78ng-1	Hydrophilicity	79-81
12411.	78ng-1	Hydrophilicity	89-103
12412.	78ng-1	Hydrophilicity	128-133
12413.	78ng-1	Hydrophilicity	194-198
12414.	78ng-1	Hydrophilicity	205-227
12415.	79ng-1	АМРНІ	4-6
12416.	79ng-1	АМРНІ	12-18
12417.	79ng-1	АМРНІ	26-35
12418.	79ng-1	AMPHI	39-45
12419.	79ng-1	АМРНІ	51-53
12420.	79ng-1	АМРНІ	82-84
12421.	79ng-1	АМРНІ	93-95
12422.	79ng-1	АМРНІ	111-117
12423.	79ng-1	АМРНІ	142-145
12424.	79ng-1	Antigenic Index	1-4
12425.	79ng-1	Antigenic Index	23-29
12426.	79ng-1	Antigenic Index	31-40
12427.	79ng-1	Antigenic Index	45-51
12428.	79ng-1	Antigenic Index	56-59
12429.	79ng-1	Antigenic Index	61-68
12430.	79ng-1	Antigenic Index	72-101
12431.	79ng-1	Antigenic Index	109-121
12432.	79ng-1	Antigenic Index	125-131
12433.	79ng-1	Antigenic Index	135-141

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12434.	79ng-1	Antigenic Index	149-156
12435.	79ng-1	Hydrophilicity	1-4
12436.	79ng-1	Hydrophilicity	26-29
12437.	79ng-1	Hydrophilicity	32-37
12438.	79ng-1	Hydrophilicity	45-51
12439.	79ng-1	Hydrophilicity	62-68
12440.	79ng-1	Hydrophilicity	76-85
12441.	79ng-1	Hydrophilicity	89-99
12442.	79ng-1	Hydrophilicity	109-121
12443.	79ng-1	Hydrophilicity	125-131
12444	79ng-1	Hydrophilicity	135-139
12445.	79ng-1	Hydrophilicity	150-156
12446.	81ng-1	АМРНІ	30-38
12447.	81ng-1	AMPHI	66-68
12448.	81ng-1	AMPHI	72-93
12449.	81ng-1	AMPHI	96-101
12450.	81ng-1	АМРНІ	104-106
12451.	81ng-1	АМРНІ	190-201
12452.	81ng-1	AMPHI	203-205
12453.	81ng-1	АМРНІ	230-233
12454.	81ng-1	АМРНІ	239-242
12455.	81ng-1	AMPHI	256-258
12456.	81ng-1	AMPHI	264-284
12457.	81ng-1	АМРНІ	290-297
12458.	81ng-1	AMPHI	317-326
12459.	81ng-1	АМРНІ	388-396
12460	81ng-1	АМРНІ	403-414
12461.	81ng-1	АМРНІ	458-463
12462.	81ng-1	АМРНІ	476-480
12463.	81ng-1	Antigenic Index	1-3
12464.	81ng-1	Antigenic Index	35-38
12465.	81ng-1	Antigenic Index	55-57
12466.	81ng-1	Antigenic Index	86-89
12467.	81ng-1	Antigenic Index	95-98
12468.	81ng-1	Antigenic Index	100-103
12469.	81ng-1	Antigenic Index	128-136
12470.	81ng-1	Antigenic Index	154-174
12471.	81ng-1	Antigenic Index	197-209
12472.	81ng-1	Antigenic Index	220-226
12473.	81ng-1	Antigenic Index	232-240
12474.	81ng-1	Antigenic Index	244-249
12475.	81ng-1	Antigenic Index	251-253
12476.	81ng-1	Antigenic Index	255-258
12477.	81ng-1	Antigenic Index	267-269

12478.	81ng-1	Antigenic Index	276-290
12479.	81ng-1	Antigenic Index	292-301
12480.	81ng-1	Antigenic Index	307-310
12481.	81ng-1	Antigenic Index	318-323
12482.	81 ng-1	Antigenic Index	334-345
12483.	81ng-1	Antigenic Index	352-358
12484.	81ng-1	Antigenic Index	364-372
12485.	81ng-1	Antigenic Index	376-384
12486.	81ng-1	Antigenic Index	387-401
12487.	81ng-1	Antigenic Index	409-417
12488.	81ng-1	Antigenic Index	423-445
12489.	81ng-1	Antigenic Index	452-459
12490.	81ng-1	Antigenic Index	486-488
12491.	81ng-1	Antigenic Index	490-499
12492.	81ng-1	Antigenic Index	507-510
12493.	81ng-1	Antigenic Index	512-520
12494.	81ng-1	Hydrophilicity	1-3
12495.	81ng-1	Hydrophilicity	35-38
12496.	81ng-1	Hydrophilicity	55-57
12497.	81ng-1	Hydrophilicity	95-98
12498.	81ng-1	Hydrophilicity	128-136
12499.	81ng-1	Hydrophilicity	154-164
12500.	81ng-1	Hydrophilicity	166-172
12501.	81ng-1	Hydrophilicity	202-208
12502.	81ng-1	Hydrophilicity	220-226
12503.	81ng-1	Hydrophilicity	234-238
12504.	81ng-1	Hydrophilicity	245-249
12505.	81ng-1	Hydrophilicity	251-253
12506.	81ng-1	Hydrophilicity	284-287
12507.	81ng-1	Hydrophilicity	292-299
12508.	81ng-1	Hydrophilicity	307-310
12509.	81ng-1	Hydrophilicity	321-323
12510.	81ng-1	Hydrophilicity	338-345
12511.	81ng-1	Hydrophilicity	366-368
12512.	81ng-1	Hydrophilicity	378-384
12513.	81ng-1	Hydrophilicity	387-401
12514.	81ng-1	Hydrophilicity	409-415
12515.	81ng-1	Hydrophilicity	453-459
12516.	81ng-1	Hydrophilicity	493-499
12517.	81ng-1	Hydrophilicity	507-509
12518.	81ng-1	Hydrophilicity	512-518
12519.	83ng-1	AMPHI	14-21
12520.	83ng-1	АМРНІ	44-47
12521.	83ng-1	АМРНІ	81-83

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12522.	83ng-1	АМРНІ	90-96
12 <u>52</u> 3.	83ng-1	АМРНІ	114-117
12524.	83ng-1	AMPHI	123-126
12525.	83ng-1	AMPHI	128-131
12526.	83ng-1	АМРНІ	135-141
12527.	83ng-1	АМРНІ	168-174
12528.	83ng-1	AMPHI	180-182
12529.	83ng-1	АМРНІ	199-202
12530.	83ng-1	АМРНІ	230-232
12531.	83ng-1	AMPHI	260-269
12532.	83ng-1	АМРНІ	274-280
12533.	83ng-1	AMPHI	296-298
12534.	83ng-1	AMPHI	303-306
12535.	83ng-1	Antigenic Index	23-32
12536.	83ng-1	Antigenic Index	34-36
12537.	83ng-1	Antigenic Index	40-58
12538.	83ng-1	Antigenic Index	65-79
12539.	83ng-1	Antigenic Index	82-84
12540.	83ng-1	Antigenic Index	86-99
12541.	83ng-1	Antigenic Index	104-113
12542.	83ng-1	Antigenic Index	132-145
12543.	83ng-1	Antigenic Index	149-157
12544.	83ng-1	Antigenic Index	159-167
12545.	83ng-1	Antigenic Index	184-193
12546.	83ng-1	Antigenic Index	201-209
12547.	83ng-1	Antigenic Index	215-222
12548.	83ng-1	Antigenic Index	227-237
12549.	83ng-1	Antigenic Index	239-243
12550.	83ng-1	Antigenic Index	245-250
12551.	83ng-1	Antigenic Index	259-261
12552.	83ng-1	Antigenic Index	263-272
12553.	83ng-1	Antigenic Index	279-313
12554.	83ng-1	Hydrophilicity	25-32
12555.	83ng-1	Hydrophilicity	34-36
12556.	83ng-1	Hydrophilicity	40-58
12557.	83ng-1	Hydrophilicity	66-70
12558.	83ng-1	Hydrophilicity	82-84
12559.	83ng-1	Hydrophilicity	90-96
12560.	83ng-1	Hydrophilicity	107-113
12561.	83ng-1	Hydrophilicity	132-143
12562.	83ng-1	Hydrophilicity	151-155
12563.	83ng-1	Hydrophilicity	161-166
12564.	83ng-1	Hydrophilicity	187-190
12565.	83ng-1	Hydrophilicity	203-208

12566.	83ng-1	Hydrophilicity	215-222
12567.	83ng-1	Hydrophilicity	227-237
12568.	83ng-1	Hydrophilicity	263-272
12569.	83ng-1	Hydrophilicity	285-313
12570.	84ng-1	AMPHI	15-22
12570.	84ng-1	AMPHI	41-47
12571.	84ng-1	AMPHI	59-67
12572.	84ng-1	AMPHI	72-85
12574.	84ng-1	AMPHI	104-108
12575.	84ng-1	AMPHI	111-114
12576.	84ng-1	AMPHI	128-133
12570.	84ng-1	AMPHI	138-140
12578.	84ng-1	AMPHI	155-158
12578.	84ng-1	AMPHI	166-170
12579.	84ng-1	AMPHI	175-180
12580.	84ng-1	AMPHI	185-190
12582.	84ng-1	AMPHI	195-201
12582.	84ng-1	AMPHI	226-230
12583.		AMPHI	258-261
12585.	84ng-1 84ng-1	AMPHI	271-273
12586.	84ng-1	AMPHI	283-299
12580.	84ng-1	AMPHI	317-322
12588.	84ng-1	AMPHI	327-330
12588.		AMPHI	348-353
12590.	84ng-1 84ng-1	AMPHI	374-376
12590.		AMPHI	381-388
12591.	84ng-1	Antigenic Index	9-18
12592.	84ng-1 84ng-1	Antigenic Index  Antigenic Index	24-42
12593.	84ng-1	Antigenic Index  Antigenic Index	45-48
12594.	84ng-1	Antigenic Index  Antigenic Index	54-70
			76-85
12596. 12597.	84ng-1 84ng-1	Antigenic Index Antigenic Index	91-95
	84ng-1	Antigenic Index  Antigenic Index	97-109
12598.			
12599.	84ng-1 84ng-1	Antigenic Index	114-120
12600. 12601.	· · · · · · · · · · · · · · · · · · ·	Antigenic Index Antigenic Index	128-137 139-141
12601.	84ng-1		152-154
12602.	84ng-1	Antigenic Index Antigenic Index	162-170
12604.	84ng-1 84ng-1	Antigenic Index  Antigenic Index	180-187
12604.	84ng-1	Antigenic Index	190-193
12606.			
	84ng-1	Antigenic Index	198-205
12607.	84ng-1	Antigenic Index	228-247
12608.	84ng-1	Antigenic Index	249-265
12609.	84ng-1	Antigenic Index	274-286

12610.   84ng-1   Antigenic Index   288-291		· · · · · · · · · · · · · · · · · · ·		
12612.   84ng-1   Antigenic Index   311-360     12613.   84ng-1   Antigenic Index   363-371     12614.   84ng-1   Antigenic Index   373-388     12615.   84ng-1   Hydrophilicity   12-18     12616.   84ng-1   Hydrophilicity   24-42     12617.   84ng-1   Hydrophilicity   45-48     12618.   84ng-1   Hydrophilicity   54-70     12619.   84ng-1   Hydrophilicity   76-83     12620.   84ng-1   Hydrophilicity   91-95     12621.   84ng-1   Hydrophilicity   101-108     12622.   84ng-1   Hydrophilicity   131-137     12623.   84ng-1   Hydrophilicity   139-141     12624.   84ng-1   Hydrophilicity   152-154     12625.   84ng-1   Hydrophilicity   152-154     12626.   84ng-1   Hydrophilicity   162-170     12626.   84ng-1   Hydrophilicity   180-187     12627.   84ng-1   Hydrophilicity   198-204     12628.   84ng-1   Hydrophilicity   230-247     12629.   84ng-1   Hydrophilicity   230-247     12629.   84ng-1   Hydrophilicity   231-261     12630.   84ng-1   Hydrophilicity   231-261     12631.   84ng-1   Hydrophilicity   231-30     12632.   84ng-1   Hydrophilicity   231-30     12633.   84ng-1   Hydrophilicity   315-325     12634.   84ng-1   Hydrophilicity   315-325     12636.   84ng-1   Hydrophilicity   315-325     12637.   84ng-1   Hydrophilicity   315-325     12638.   84ng-1   Hydrophilicity   375-384     12639.   85ng-1   Hydrophilicity   375-384     12640.   85ng-1   AMPHI   4-6     12640.   85ng-1   AMPHI   4-6     12641.   85ng-1   AMPHI   4-6     12642.   85ng-1   AMPHI   4-6     12643.   85ng-1   AMPHI   4-6     12644.   85ng-1   AMPHI   4-6     12645.   85ng-1   AMPHI   4-6     12646.   85ng-1   AMPHI   4-12-12-12-12-12-12-12-12-12-12-12-12-12-	12610.	84ng-1	Antigenic Index	288-291
12613.	12611.	84ng-1	Antigenic Index	300-307
12614. 84ng-1	12612.	84ng-1	Antigenic Index	311-360
12615. 84ng-1	12613.	84ng-1	Antigenic Index	363-371
12616.	12614.	84ng-1	Antigenic Index	373-388
12617. 84ng-1	12615.	84ng-1	Hydrophilicity	12-18
12618. 84ng-1	12616.	84ng-1	Hydrophilicity	24-42
12619. 84ng-1	12617.	84ng-1	Hydrophilicity	45-48
12620. 84ng-1	12618	84ng-1	Hydrophilicity	54-70
12621. 84ng-1	12619.	84ng-1	Hydrophilicity	76-83
12622. 84ng-1	12620.	84ng-1	Hydrophilicity	91-95
12623.	12621.	84ng-1	Hydrophilicity	101-108
12624. 84ng-1	12622.	84ng-1	Hydrophilicity	131-137
12625.         84ng-1         Hydrophilicity         162-170           12626.         84ng-1         Hydrophilicity         180-187           12627.         84ng-1         Hydrophilicity         198-204           12628.         84ng-1         Hydrophilicity         230-247           12629.         84ng-1         Hydrophilicity         251-261           12630.         84ng-1         Hydrophilicity         274-282           12631.         84ng-1         Hydrophilicity         301-306           12632.         84ng-1         Hydrophilicity         315-325           12633.         84ng-1         Hydrophilicity         315-325           12634.         84ng-1         Hydrophilicity         337-349           12635.         84ng-1         Hydrophilicity         351-359           12636.         84ng-1         Hydrophilicity         351-359           12637.         84ng-1         Hydrophilicity         364-369           12638.         84ng-1         Hydrophilicity         375-384           12639.         85ng-1         AMPHI         4-6           12640.         85ng-1         AMPHI         9-13           12641.         85ng-1         AMPHI	12623.	84ng-1	Hydrophilicity	139-141
12626.         84ng-1         Hydrophilicity         180-187           12627.         84ng-1         Hydrophilicity         198-204           12628.         84ng-1         Hydrophilicity         230-247           12629.         84ng-1         Hydrophilicity         251-261           12630.         84ng-1         Hydrophilicity         274-282           12631.         84ng-1         Hydrophilicity         301-306           12632.         84ng-1         Hydrophilicity         315-325           12633.         84ng-1         Hydrophilicity         327-330           12634.         84ng-1         Hydrophilicity         337-349           12635.         84ng-1         Hydrophilicity         351-359           12636.         84ng-1         Hydrophilicity         351-359           12637.         84ng-1         Hydrophilicity         364-369           12638.         84ng-1         Hydrophilicity         375-384           12639.         85ng-1         AMPHI         4-6           12640.         85ng-1         AMPHI         9-13           12641.         85ng-1         AMPHI         19-24           12642.         85ng-1         AMPHI         44-5	12624.		Hydrophilicity	152-154
12627.         84ng-1         Hydrophilicity         198-204           12628.         84ng-1         Hydrophilicity         230-247           12629.         84ng-1         Hydrophilicity         251-261           12630.         84ng-1         Hydrophilicity         274-282           12631.         84ng-1         Hydrophilicity         301-306           12632.         84ng-1         Hydrophilicity         315-325           12633.         84ng-1         Hydrophilicity         327-330           12634.         84ng-1         Hydrophilicity         337-349           12635.         84ng-1         Hydrophilicity         351-359           12636.         84ng-1         Hydrophilicity         364-369           12637.         84ng-1         Hydrophilicity         364-369           12638.         84ng-1         Hydrophilicity         375-384           12639.         85ng-1         AMPHI         4-6           12640.         85ng-1         AMPHI         9-13           12641.         85ng-1         AMPHI         19-24           12642.         85ng-1         AMPHI         44-51           12643.         85ng-1         AMPHI         46-71	12625.	84ng-1	Hydrophilicity	162-170
12628.         84ng-1         Hydrophilicity         230-247           12629.         84ng-1         Hydrophilicity         251-261           12630.         84ng-1         Hydrophilicity         274-282           12631.         84ng-1         Hydrophilicity         301-306           12632.         84ng-1         Hydrophilicity         315-325           12633.         84ng-1         Hydrophilicity         327-330           12634.         84ng-1         Hydrophilicity         337-349           12635.         84ng-1         Hydrophilicity         351-359           12636.         84ng-1         Hydrophilicity         364-369           12637.         84ng-1         Hydrophilicity         364-369           12638.         84ng-1         Hydrophilicity         375-384           12639.         85ng-1         AMPHI         4-6           12640.         85ng-1         AMPHI         9-13           12641.         85ng-1         AMPHI         19-24           12642.         85ng-1         AMPHI         46-51           12643.         85ng-1         AMPHI         46-51           12644.         85ng-1         AMPHI         78-81      <	12626.	84ng-1	Hydrophilicity	180-187
12629.         84ng-1         Hydrophilicity         251-261           12630.         84ng-1         Hydrophilicity         274-282           12631.         84ng-1         Hydrophilicity         288-291           12632.         84ng-1         Hydrophilicity         301-306           12633.         84ng-1         Hydrophilicity         315-325           12634.         84ng-1         Hydrophilicity         327-330           12635.         84ng-1         Hydrophilicity         337-349           12636.         84ng-1         Hydrophilicity         351-359           12637.         84ng-1         Hydrophilicity         364-369           12638.         84ng-1         Hydrophilicity         375-384           12639.         85ng-1         AMPHI         4-6           12640.         85ng-1         AMPHI         9-13           12641.         85ng-1         AMPHI         19-24           12642.         85ng-1         AMPHI         44-51           12643.         85ng-1         AMPHI         44-51           12644.         85ng-1         AMPHI         68-71           12646.         85ng-1         AMPHI         124-128	12627.	84ng-1	Hydrophilicity	198-204
12630.         84ng-1         Hydrophilicity         274-282           12631.         84ng-1         Hydrophilicity         288-291           12632.         84ng-1         Hydrophilicity         301-306           12633.         84ng-1         Hydrophilicity         315-325           12634.         84ng-1         Hydrophilicity         327-330           12635.         84ng-1         Hydrophilicity         337-349           12636.         84ng-1         Hydrophilicity         351-359           12637.         84ng-1         Hydrophilicity         364-369           12638.         84ng-1         Hydrophilicity         375-384           12639.         85ng-1         AMPHI         4-6           12640.         85ng-1         AMPHI         9-13           12641.         85ng-1         AMPHI         19-24           12642.         85ng-1         AMPHI         36-40           12643.         85ng-1         AMPHI         44-51           12644.         85ng-1         AMPHI         56-60           12645.         85ng-1         AMPHI         78-81           12647.         85ng-1         AMPHI         124-128           1264	12628.	84ng-1	Hydrophilicity	230-247
12631.         84ng-1         Hydrophilicity         288-291           12632.         84ng-1         Hydrophilicity         301-306           12633.         84ng-1         Hydrophilicity         315-325           12634.         84ng-1         Hydrophilicity         327-330           12635.         84ng-1         Hydrophilicity         337-349           12636.         84ng-1         Hydrophilicity         351-359           12637.         84ng-1         Hydrophilicity         364-369           12638.         84ng-1         Hydrophilicity         375-384           12639.         85ng-1         AMPHI         4-6           12640.         85ng-1         AMPHI         9-13           12641.         85ng-1         AMPHI         19-24           12642.         85ng-1         AMPHI         36-40           12643.         85ng-1         AMPHI         44-51           12644.         85ng-1         AMPHI         56-60           12645.         85ng-1         AMPHI         78-81           12646.         85ng-1         AMPHI         124-128           12649.         85ng-1         AMPHI         144-148           12650.	12629.	84ng-1	Hydrophilicity	251-261
12632.       84ng-1       Hydrophilicity       301-306         12633.       84ng-1       Hydrophilicity       315-325         12634.       84ng-1       Hydrophilicity       327-330         12635.       84ng-1       Hydrophilicity       337-349         12636.       84ng-1       Hydrophilicity       351-359         12637.       84ng-1       Hydrophilicity       364-369         12638.       84ng-1       Hydrophilicity       375-384         12639.       85ng-1       AMPHI       4-6         12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       78-81         12646.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       144-148         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1 <td< td=""><td>12630.</td><td>84ng-1</td><td>Hydrophilicity</td><td>274-282</td></td<>	12630.	84ng-1	Hydrophilicity	274-282
12633.       84ng-1       Hydrophilicity       315-325         12634.       84ng-1       Hydrophilicity       327-330         12635.       84ng-1       Hydrophilicity       337-349         12636.       84ng-1       Hydrophilicity       351-359         12637.       84ng-1       Hydrophilicity       364-369         12638.       84ng-1       Hydrophilicity       375-384         12639.       85ng-1       AMPHI       4-6         12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       46-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI	12631.	84ng-1	Hydrophilicity	288-291
12634.       84ng-1       Hydrophilicity       327-330         12635.       84ng-1       Hydrophilicity       337-349         12636.       84ng-1       Hydrophilicity       351-359         12637.       84ng-1       Hydrophilicity       364-369         12638.       84ng-1       Hydrophilicity       375-384         12639.       85ng-1       AMPHI       4-6         12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12632.	84ng-1	Hydrophilicity	301-306
12635.       84ng-1       Hydrophilicity       337-349         12636.       84ng-1       Hydrophilicity       351-359         12637.       84ng-1       Hydrophilicity       364-369         12638.       84ng-1       Hydrophilicity       375-384         12639.       85ng-1       AMPHI       4-6         12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       120-206	12633.	84ng-1	Hydrophilicity	315-325
12636.       84ng-1       Hydrophilicity       351-359         12637.       84ng-1       Hydrophilicity       364-369         12638.       84ng-1       Hydrophilicity       375-384         12639.       85ng-1       AMPHI       4-6         12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12634.	84ng-1	Hydrophilicity	327-330
12637.       84ng-1       Hydrophilicity       364-369         12638.       84ng-1       Hydrophilicity       375-384         12639.       85ng-1       AMPHI       4-6         12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12635.	84ng-1	Hydrophilicity	337-349
12638.       84ng-1       Hydrophilicity       375-384         12639.       85ng-1       AMPHI       4-6         12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12636.	84ng-1	Hydrophilicity	351-359
12639.       85ng-1       AMPHI       4-6         12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12637.	84ng-1	Hydrophilicity	364-369
12640.       85ng-1       AMPHI       9-13         12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12638.	84ng-1	Hydrophilicity	375-384
12641.       85ng-1       AMPHI       19-24         12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12639.	85ng-1	АМРНІ	4-6
12642.       85ng-1       AMPHI       36-40         12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12640.	85ng-1	AMPHI	9-13
12643.       85ng-1       AMPHI       44-51         12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12641.	85ng-1	AMPHI	19-24
12644.       85ng-1       AMPHI       56-60         12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12642.	85ng-1	AMPHI_	36-40
12645.       85ng-1       AMPHI       68-71         12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12643.	85ng-1	AMPHI	44-51
12646.       85ng-1       AMPHI       78-81         12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12644.	85ng-1	АМРНІ	56-60
12647.       85ng-1       AMPHI       86-89         12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12645.	85ng-1	AMPHI	68-71
12648.       85ng-1       AMPHI       124-128         12649.       85ng-1       AMPHI       144-148         12650.       85ng-1       AMPHI       158-163         12651.       85ng-1       AMPHI       184-186         12652.       85ng-1       AMPHI       202-206	12646.	85ng-1	AMPHI	78-81
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12650.     85ng-1     AMPHI     158-163       12651.     85ng-1     AMPHI     184-186       12652.     85ng-1     AMPHI     202-206	12648.	85ng-1	AMPHI	124-128
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12657.	85ng-1	AMPHI	273-275
12658.	85ng-1	AMPHI	277-279
12659.	85ng-1	AMPHI	311-313
12660.	85ng-1	AMPHI	331-334
12661.	85ng-1	AMPHI	341-345
12662.	85ng-1	AMPHI	361-365
12663.	85ng-1	AMPHI	370-373
12664.	85ng-1	AMPHI	378
12665.	85ng-1	AMPHI	384
12666.	85ng-1	Antigenic Index	19-22
12667.	85ng-1	Antigenic Index	24-31
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12669.	85ng-1	Antigenic Index	47-57
12670.	85ng-1	Antigenic Index	65-73
12671.	85ng-1	Antigenic Index	78-109
12672.	85ng-1	Antigenic Index	121-129
12673.	85ng-1	Antigenic Index	133-148
12674.	85ng-1	Antigenic Index	156-159
12675.	85ng-1	Antigenic Index	162-169
12676	85ng-1	Antigenic Index	173-180
12677.	85ng-1	Antigenic Index	185-189
12678.	85ng-1	Antigenic Index	195-201
12679.	85ng-1	Antigenic Index	205-208
12680.	85ng-1	Antigenic Index	225-240
12681.	85ng-1	Antigenic Index	245-263
12682.	85ng-1	Antigenic Index	269-279
12683.	85ng-1	Antigenic Index	269-279
12684.	85ng-1	Antigenic Index	290-298
12685.	85ng-1	Antigenic Index	301-313
12686.	85ng-1	Antigenic Index	332-331
12687.	85ng-1	Antigenic Index	335-369
12688.	85ng-1	Antigenic Index	374-392
12689.	85ng-1	Hydrophilicity	26-29
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12698.	85ng-1	Hydrophilicity	156-159
12699.	85ng-1	Hydrophilicity	162-169
12700.	85ng-1	Hydrophilicity	173-179
12701.	85ng-1	Hydrophilicity	195-201
12702.	85ng-1	Hydrophilicity	225-238
12703.	85ng-1	Hydrophilicity	246-260
12704.	85ng-1	Hydrophilicity	273-279
12705.	85ng-1	Hydrophilicity	293-297
12706.	85ng-1	Hydrophilicity	307-313
12707.	85ng-1	Hydrophilicity	323-331
12708.	85ng-1	Hydrophilicity	335-369
12709.	85ng-1	Hydrophilicity	374-392
12710.	88ng-1	АМРНІ	15-21
12711.	88ng-1	АМРНІ	28-41
12712.	88ng-1	AMPHI	55-73
12713.	88ng-1	АМРНІ	100-109
12714.	88ng-1	АМРНІ	115-117
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12721.	88ng-1	AMPHI	327-330
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12724.	88ng-1	АМРНІ	365-371
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12732.	88ng-1	АМРНІ	509-512
12733.	88ng-1	AMPHI	516-519
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12735.	88ng-1	AMPHI	529-548
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12737.	88ng-1	AMPHI	566-577
12738.	88ng-1	АМРНІ	586-590
12739.	88ng-1	AMPHI	597-601
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12745.       88ng-1       Antigenic Index       119-124         12746.       88ng-1       Antigenic Index       127-138         12747.       88ng-1       Antigenic Index       140-154         12748.       88ng-1       Antigenic Index       158-166         12749.       88ng-1       Antigenic Index       182-185         12750.       88ng-1       Antigenic Index       199-204	
12746.       88ng-1       Antigenic Index       127-138         12747.       88ng-1       Antigenic Index       140-154         12748.       88ng-1       Antigenic Index       158-166         12749.       88ng-1       Antigenic Index       182-185         12750.       88ng-1       Antigenic Index       199-204	
12747.       88ng-1       Antigenic Index       140-154         12748.       88ng-1       Antigenic Index       158-166         12749.       88ng-1       Antigenic Index       182-185         12750.       88ng-1       Antigenic Index       199-204	
12748.       88ng-1       Antigenic Index       158-166         12749.       88ng-1       Antigenic Index       182-185         12750.       88ng-1       Antigenic Index       199-204	
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12794.	88ng-1	Hydrophilicity	404-411
12795.	88ng-1	Hydrophilicity	423-427
12796	88ng-1	Hydrophilicity	434-438
12797.	88ng-1	Hydrophilicity	448-455
12798.	88ng-1	Hydrophilicity	463-488
12799.	88ng-1	Hydrophilicity	517-526
12800.	88ng-1	Hydrophilicity	540-546
12801.	88ng-1	Hydrophilicity	553-560
12802.	88ng-1	Hydrophilicity	586-594
12803	88ng-1	Hydrophilicity	596-601
12804.	88ng-1	Hydrophilicity	623-628
12805.	88ng-1	Hydrophilicity	633-637
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12808.	89ng-1	AMPHI	37-48
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12815.	89ng-1	AMPHI	142-146
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12817.	89ng-1	Antigenic Index	37-46
12818.	89ng-1	Antigenic Index	61-76
12819.	89ng-1	Antigenic Index	82-95
12820.	89ng-1	Antigenic Index	99-107
12821.	89ng-1	Antigenic Index	128-162
12822.	89ng-1	Hydrophilicity	4-10
12823.	89ng-1	Hydrophilicity	64-76
12824.	89ng-1	Hydrophilicity	85-95
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12826.	89ng-1	Hydrophilicity	131-140
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12828.	89ng-1	Hydrophilicity	157-162
12829.	91ng-1	AMPHI	7-9

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12830.	91ng-1	AMPHI	22-30
12831.	91ng-1	AMPHI	37-42
12832.	91ng-1	AMPHI	45-47
12833.	91ng-1	AMPHI	64-68
12834.	91ng-1	AMPHI	74-78
12835.	91ng-1	AMPHI	80-83
12836.	91ng-1	АМРНІ	88-92
12837.	91ng-1	AMPHI	98-100
12838.	91ng-1	АМРНІ	122-124
12839.	91ng-1	AMPHI	138-140
12840.	91ng-1	AMPHI	165-167
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12842.	91ng-1	АМРНІ	181-188
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12850.	91ng-1	Antigenic Index	130-132
12851.	91ng-1	Antigenic Index	134-142
12852.	91ng-1	Antigenic Index	146-155
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12854.	91ng-1	Antigenic Index	169-173
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12856.	91ng-1	Antigenic Index	185-187
12857.	91ng-1	Antigenic Index	189-196
12858.	91ng-1	Hydrophilicity	1-5
12859.	91ng-1	Hydrophilicity	25-27
12860.	91ng-1	Hydrophilicity	31-35
12861.	91ng-1	Hydrophilicity	43-56
12862.	91ng-1	Hydrophilicity	78-91
12863.	91ng-1	Hydrophilicity	104-108
12864.	91ng-1	Hydrophilicity	112-119
12865.	91ng-1	Hydrophilicity	121-128
12866.	91ng-1	Hydrophilicity	130-132
12867.	91ng-1	Hydrophilicity	138-141
12868.	91ng-1	Hydrophilicity	151-154
12869.	91ng-1	Hydrophilicity	177-183
12870.	91ng-1	Hydrophilicity	189-196
12871.	117ng-1	AMPHI	26-33
12872.	117ng-1	AMPHI	41-43
12873.	117ng-1	AMPHI	53-57

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12874.	117ng-1	AMPHI	68-73
12875.	117ng-1	AMPHI	106-113
12876.	117ng-1	AMPHI	136-139
12877.	117ng-1	AMPHI	158-166
12878.	117ng-1	AMPHI	174-190
12879.	117ng-1	AMPHI	196-200
12880.	117ng-1	AMPHI	281-284
12881.	117ng-1	AMPHI	299-305
12882.	117ng-1	AMPHI	316-327
12883.	117ng-1	AMPHI	339-341
12884.	117ng-1	AMPHI	343-346
12885.	117ng-1	AMPHI	348-352
12886.	117ng-1	AMPHI	361-363
12887.	117ng-1	АМРНІ	392-395
12888.	117ng-1	АМРНІ	403-408
12889.	117ng-1	АМРНІ	414-417
12890.	117ng-1	АМРНІ	432-440
12891.	117ng-1	АМРНІ	488-497
12892.	117ng-1	AMPHI	512-516
12893.	117ng-1	АМРНІ	544-546
12894.	117ng-1	АМРНІ	551-556
12895.	117ng-1	АМРНІ	566-572
12896.	117ng-1	АМРНІ	605-608
12897.	117ng-1	АМРНІ	623-627
12898.	117ng-1	АМРНІ	633-635
12899.	117ng-1	АМРНІ	673-678
12900.	117ng-1	АМРНІ	690-694
12901.	117ng-1	Antigenic Index	4-30
12902.	117ng-1	Antigenic Index	32-61
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12904.	117ng-1	Antigenic Index	76-100
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12907.	117ng-1	Antigenic Index	122-137
12908.	117ng-1	Antigenic Index	140-143
12909.	117ng-1	Antigenic Index	151-173
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12911.	117ng-1	Antigenic Index	180-210
12912.	117ng-1	Antigenic Index	219-223
12913.	117ng-1	Antigenic Index	235-244
12914.	117ng-1	Antigenic Index	256-265
12915.	117ng-1	Antigenic Index	270-273
12916.	117ng-1	Antigenic Index	279-292

12918.	117ng-1	Antigenic Index	307-313
12919.	117ng-1	Antigenic Index	337-356
12920.	117ng-1	Antigenic Index	258-360
12921.	117ng-1	Antigenic Index	362-364
12922.	117ng-1	Antigenic Index	369-375
12923.	117ng-1	Antigenic Index	380-386
12924.	117ng-1	Antigenic Index	391-447
12925.	117ng-1	Antigenic Index	452-468
12926	117ng-1	Antigenic Index	472-479
12927.	117ng-1	Antigenic Index	487-506
12928.	117ng-1	Antigenic Index	508-526
12929.	117ng-1	Antigenic Index	530-536
12930	117ng-1	Antigenic Index	542-552
12931.	117ng-1	Antigenic Index	559-578
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12933.	117ng-1	Antigenic Index	621-638
12934.	117ng-1	Antigenic Index	651-666
12935.	117ng-1	Antigenic Index	688-697
12936.	117ng-1	Antigenic Index	709-721
12937.	117ng-1	Hydrophilicity	4-12
12938.	117ng-1	Hydrophilicity	15-27
12939.	117ng-1	Hydrophilicity	33-48
12940.	117ng-1	Hydrophilicity	53-60
12941.	117ng-1	Hydrophilicity	68-74
12942.	117ng-1	Hydrophilicity	76-78
12943.	117ng-1	Hydrophilicity	80-99
12944.	117ng-1	Hydrophilicity	131-137
12945.	117ng-1	Hydrophilicity	151-155
12946.	117ng-1	Hydrophilicity	157-163
12947.	117ng-1	Hydrophilicity	170-173
12948.	117ng-1	Hydrophilicity	175-177
12949.	117ng-1	Hydrophilicity	180-199
12950.	117ng-1	Hydrophilicity	202-207
12951.	117ng-1	Hydrophilicity	219-223
12952.	117ng-1	Hydrophilicity	235-244
12953.	117ng-1	Hydrophilicity	256-265
12954.	117ng-1	Hydrophilicity	279-283
12955.	117ng-1	Hydrophilicity	298-301
12956.	117ng-1	Hydrophilicity	307-313
12957.	117ng-1	Hydrophilicity	345-355
12958.	117ng-1	Hydrophilicity	362-364
12959.	117ng-1	Hydrophilicity	370-375
12960.	117ng-1	Hydrophilicity	380-385
12961.	117ng-1	Hydrophilicity	393-410

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12962.	117ng-1	Hydrophilicity	417-419
12963.	117ng-1	Hydrophilicity	422-439
12964.	117ng-1	Hydrophilicity	441-447
12965.	117ng-1	Hydrophilicity	455-467
12966.	117ng-1	Hydrophilicity	473-477
12967.	117ng-1	Hydrophilicity	487-501
12968.	117ng-1	Hydrophilicity	508-518
12969.	117ng-1	Hydrophilicity	520-526
12970.	117ng-1	Hydrophilicity	532-534
12971.	117ng-1	Hydrophilicity	542-544
12972.	117ng-1	Hydrophilicity	546-552
12973.	117ng-1	Hydrophilicity	564-569
12974.	117ng-1	Hydrophilicity	573-575
12975.	117ng-1	Hydrophilicity	589-605
12976.	117ng-1	Hydrophilicity	611-615
12977.	117ng-1	Hydrophilicity	621-627
12978.	117ng-1	Hydrophilicity	631-635
12979.	117ng-1	Hydrophilicity	653-657
12980.	117ng-1	Hydrophilicity	661-665
12981.	117ng-1	Hydrophilicity	688-697
12982.	117ng-1	Hydrophilicity	711-721
12983.	119ng-1	AMPHI	10-12
12984.	119ng-1	AMPHI	25-33
12985.	119ng-1	АМРНІ	48-51
12986.	119ng-1	AMPHI	68-84
12987.	119ng-1	AMPHI	120-127
12988.	119ng-1	AMPHI	132-138
12989.	119ng-1	AMPHI	147-150
12990.	119ng-1	AMPHI	154-160
12991.	119ng-1	AMPHI	173-176
12992.	119ng-1	AMPHI	180-192
12993.	119ng-1	AMPHI	210-213
12994.	119ng-1	AMPHI	215-217
12995.	119ng-1	AMPHI	237-255
12996.	119ng-1	АМРНІ	261-279
12997.	119ng-1	AMPHI	289-292
12998.	119ng-1	AMPHI	349-357
12999.	119ng-1	AMPHI	363-371
13000.	119ng-1	AMPHI	388-400
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13039.	119ng-1	Hydrophilicity	243-247
13040.	119ng-1	Hydrophilicity	278-281
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13361.         129ng-1         AMPHI         132-137           13362.         129ng-1         AMPHI         150-154           13363.         129ng-1         AMPHI         157-160           13364.         129ng-1         AMPHI         170-183           13365.         129ng-1         AMPHI         194-201           13366.         129ng-1         AMPHI         221-223           13367.         129ng-1         AMPHI         230-234           13368.         129ng-1         Antigenic Index         3-5           13369.         129ng-1         Antigenic Index         49-53           13370.         129ng-1         Antigenic Index         102-105           13371.         129ng-1         Antigenic Index         102-105           13372.         129ng-1         Antigenic Index         127-130           13373.         129ng-1         Antigenic Index         140-152           13374.         129ng-1         Antigenic Index         170-176           13375.         129ng-1         Antigenic Index         186-191           13377.         129ng-1         Antigenic Index         207-210           13378.         129ng-1         Antigenic Index         2
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13363.       129ng-1       AMPHI       157-160         13364.       129ng-1       AMPHI       170-183         13365.       129ng-1       AMPHI       194-201         13366.       129ng-1       AMPHI       221-223         13367.       129ng-1       AMPHI       230-234         13368.       129ng-1       Antigenic Index       3-5         13369.       129ng-1       Antigenic Index       49-53         13370.       129ng-1       Antigenic Index       95-99         13371.       129ng-1       Antigenic Index       102-105         13372.       129ng-1       Antigenic Index       108-116         13373.       129ng-1       Antigenic Index       127-130         13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity
13364.       129ng-1       AMPHI       170-183         13365.       129ng-1       AMPHI       194-201         13366.       129ng-1       AMPHI       221-223         13367.       129ng-1       AMPHI       230-234         13368.       129ng-1       Antigenic Index       3-5         13369.       129ng-1       Antigenic Index       49-53         13370.       129ng-1       Antigenic Index       95-99         13371.       129ng-1       Antigenic Index       102-105         13372.       129ng-1       Antigenic Index       127-130         13373.       129ng-1       Antigenic Index       140-152         13374.       129ng-1       Antigenic Index       170-176         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       49-53         13381.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity
13365.         129ng-1         AMPHI         194-201           13366.         129ng-1         AMPHI         221-223           13367.         129ng-1         AMPHI         230-234           13368.         129ng-1         Antigenic Index         3-5           13369.         129ng-1         Antigenic Index         49-53           13370.         129ng-1         Antigenic Index         102-105           13371.         129ng-1         Antigenic Index         108-116           13372.         129ng-1         Antigenic Index         127-130           13373.         129ng-1         Antigenic Index         140-152           13374.         129ng-1         Antigenic Index         170-176           13375.         129ng-1         Antigenic Index         186-191           13377.         129ng-1         Antigenic Index         207-210           13378.         129ng-1         Antigenic Index         212-217           13380.         129ng-1         Hydrophilicity         3-5           13381.         129ng-1         Hydrophilicity         49-53           13382.         129ng-1         Hydrophilicity         108-10           13383.         129ng-1         Hydr
13365.         129ng-1         AMPHI         194-201           13366.         129ng-1         AMPHI         221-223           13367.         129ng-1         AMPHI         230-234           13368.         129ng-1         Antigenic Index         3-5           13369.         129ng-1         Antigenic Index         49-53           13370.         129ng-1         Antigenic Index         102-105           13371.         129ng-1         Antigenic Index         108-116           13372.         129ng-1         Antigenic Index         127-130           13373.         129ng-1         Antigenic Index         140-152           13374.         129ng-1         Antigenic Index         170-176           13375.         129ng-1         Antigenic Index         186-191           13377.         129ng-1         Antigenic Index         207-210           13378.         129ng-1         Antigenic Index         212-217           13380.         129ng-1         Hydrophilicity         3-5           13381.         129ng-1         Hydrophilicity         49-53           13382.         129ng-1         Hydrophilicity         108-10           13383.         129ng-1         Hydr
13367.         129ng-1         AMPHI         230-234           13368.         129ng-1         Antigenic Index         3-5           13369.         129ng-1         Antigenic Index         49-53           13370.         129ng-1         Antigenic Index         95-99           13371.         129ng-1         Antigenic Index         102-105           13372.         129ng-1         Antigenic Index         108-116           13373.         129ng-1         Antigenic Index         127-130           13374.         129ng-1         Antigenic Index         140-152           13375.         129ng-1         Antigenic Index         170-176           13376.         129ng-1         Antigenic Index         186-191           13377.         129ng-1         Antigenic Index         207-210           13378.         129ng-1         Antigenic Index         212-217           13379.         129ng-1         Antigenic Index         238-248           13380.         129ng-1         Hydrophilicity         49-53           13381.         129ng-1         Hydrophilicity         108-10           13383.         129ng-1         Hydrophilicity         112-114           13384.         129ng-1
13368.       129ng-1       Antigenic Index       3-5         13369.       129ng-1       Antigenic Index       49-53         13370.       129ng-1       Antigenic Index       95-99         13371.       129ng-1       Antigenic Index       102-105         13372.       129ng-1       Antigenic Index       108-116         13373.       129ng-1       Antigenic Index       127-130         13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
13369.       129ng-1       Antigenic Index       49-53         13370.       129ng-1       Antigenic Index       95-99         13371.       129ng-1       Antigenic Index       102-105         13372.       129ng-1       Antigenic Index       108-116         13373.       129ng-1       Antigenic Index       127-130         13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
13370.       129ng-1       Antigenic Index       95-99         13371.       129ng-1       Antigenic Index       102-105         13372.       129ng-1       Antigenic Index       108-116         13373.       129ng-1       Antigenic Index       127-130         13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
13371.       129ng-1       Antigenic Index       102-105         13372.       129ng-1       Antigenic Index       108-116         13373.       129ng-1       Antigenic Index       127-130         13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
13371.       129ng-1       Antigenic Index       102-105         13372.       129ng-1       Antigenic Index       108-116         13373.       129ng-1       Antigenic Index       127-130         13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
13372.       129ng-1       Antigenic Index       108-116         13373.       129ng-1       Antigenic Index       127-130         13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
13373.       129ng-1       Antigenic Index       127-130         13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
13374.       129ng-1       Antigenic Index       140-152         13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
13375.       129ng-1       Antigenic Index       170-176         13376.       129ng-1       Antigenic Index       186-191         13377.       129ng-1       Antigenic Index       207-210         13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
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13378.       129ng-1       Antigenic Index       212-217         13379.       129ng-1       Antigenic Index       238-248         13380.       129ng-1       Hydrophilicity       3-5         13381.       129ng-1       Hydrophilicity       49-53         13382.       129ng-1       Hydrophilicity       108-10         13383.       129ng-1       Hydrophilicity       112-114         13384.       129ng-1       Hydrophilicity       142-152
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13552.	133ng-1	Antigenic Index	43-80
13553.	133ng-1	Antigenic Index	83-85
13554.	133ng-1	Antigenic Index	88-95
13555.	133ng-1	Antigenic Index	100-108
13556.	133ng-1	Antigenic Index	123-137
13557.	133ng-1	Antigenic Index	139-145
13558.	133ng-1	Antigenic Index	150-161
13559.	133ng-1	Antigenic Index	166-171
13560.	133ng-1	Antigenic Index	174-176
13561.	133ng-1	Antigenic Index	178-185
13562.	133ng-1	Antigenic Index	193-203
13563.	133ng-1	Antigenic Index	211-217
13564.	133ng-1	Antigenic Index	224-234
13565.	133ng-1	Antigenic Index	236-257
13566.	133ng-1	Antigenic Index	261-317
13567.	133ng-1	Antigenic Index	319-333
13568.	133ng-1	Antigenic Index	335-342
13569.	133ng-1	Antigenic Index	346-365
13570.	133ng-1	Antigenic Index	377-379
13571.	133ng-1	Antigenic Index	387-400
13572.	133ng-1	Antigenic Index	407-434
13573.	133ng-1	Antigenic Index	443-454
13574.	133ng-1	Antigenic Index	461-468
13575.	133ng-1	Antigenic Index	475-488
13576.	133ng-1	Antigenic Index	493-485

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13578.	133ng-1	Antigenic Index	525-560
13579.	133ng-1	Antigenic Index	563-577
13580.	133ng-1	Antigenic Index	582-587
13581.	133ng-1	Antigenic Index	593-603
13582.	133ng-1	Antigenic Index	610-616
13583.	133ng-1	Antigenic Index	620-629
13584.	133ng-1	Antigenic Index	632-646
13585.	133ng-1	Antigenic Index	652-659
13586.	133ng-1	Antigenic Index	670-678
13587.	133ng-1	Antigenic Index	681-684
13588.	133ng-1	Antigenic Index	688-704
13589.	133ng-1	Antigenic Index	706-710
13590.	133ng-1	Antigenic Index	720-750
13591.	133ng-1	Antigenic Index	757-777
13592.	133ng-1	Antigenic Index	784-824
13593.	133ng-1	Antigenic Index	834-842
13594.	133ng-1	Antigenic Index	846-868
13595.	133ng-1	Antigenic Index	873-904
13596.	133ng-1	Antigenic Index	908-913
13597.	133ng-1	Antigenic Index	919-922
13598.	133ng-1	Hydrophilicity	3-7
13599.	133ng-1	Hydrophilicity	24-35
13600.	133ng-1	Hydrophilicity	43-80
13601.	133ng-1	Hydrophilicity	88-95
13602.	133ng-1	Hydrophilicity	101-107
13603.	133ng-1	Hydrophilicity	125-133
13604.	133ng-1	Hydrophilicity	150-153
13605.	133ng-1	Hydrophilicity	174-176
13606.	133ng-1	Hydrophilicity	178-181
13607.	133ng-1	Hydrophilicity	197-203
13608.	133ng-1	Hydrophilicity	211-214
13609.	133ng-1	Hydrophilicity	225-230
13610.	133ng-1	Hydrophilicity	249-257
13611.	133ng-1	Hydrophilicity	263-265
13612.	133ng-1	Hydrophilicity	272-279
13613.	133ng-1	Hydrophilicity	287-312
13614.	133ng-1	Hydrophilicity	324-330
			337-339
		Hydrophilicity	348-355
			357-364
			<del>                                     </del>
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13621.			
13615. 13616. 13617. 13618. 13619.	133ng-1 133ng-1 133ng-1 133ng-1 133ng-1 133ng-1 133ng-1	Hydrophilicity	337-339 348-355

12622	122 1	Trades at 11 sta	1446 454
13622.	133ng-1	Hydrophilicity	446-454
13623.	133ng-1	Hydrophilicity	462-467
13624.	133ng-1	Hydrophilicity	476-483
13625.	133ng-1	Hydrophilicity	506-512
13626.	133ng-1	Hydrophilicity	535-556
13627.	133ng-1	Hydrophilicity	564-575
13628.	133ng-1	Hydrophilicity	596-599
13629.	133ng-1	Hydrophilicity	620-626
13630.	133ng-1	Hydrophilicity	634-636
13631.	133ng-1	Hydrophilicity	638-646
13632.	133ng-1	Hydrophilicity	652-658
13633.	133ng-1	Hydrophilicity	688-702
13634.	133ng-1	Hydrophilicity	723-726
13635.	133ng-1	Hydrophilicity	729-747
13636.	133ng-1	Hydrophilicity	757-767
13637.	133ng-1	Hydrophilicity	788-799
13638.	133ng-1	Hydrophilicity	810-824
13639.	133ng-1	Hydrophilicity	836-842
13640.	133ng-1	Hydrophilicity	846-848
13641.	133ng-1	Hydrophilicity	850-858
13642.	133ng-1	Hydrophilicity	860-868
13643.	133ng-1	Hydrophilicity	875-893
13644.	133ng-1	Hydrophilicity	897-901
13645.	133ng-1	Hydrophilicity	909-912
13646.	134ng-1	AMPHI	12-19
13647.	134ng-1	АМРНІ	21-33
13648.	134ng-1	АМРНІ	37-48
13649.	134ng-1	АМРНІ	109-112
13650.	134ng-1	АМРНІ	196-205
13651.	134ng-1	АМРНІ	221-224
13652.	134ng-1	AMPHI	227-235
13653.	134ng-1	АМРНІ	248-259
13654.	134ng-1	AMPHI	262-264
13655.	134ng-1	АМРНІ	268-271
13656.	134ng-1	АМРНІ	335-337
13657.	134ng-1	AMPHI	339-344
13658.	134ng-1	АМРНІ	351-355
13659.	134ng-1	Antigenic Index	9-13
13660.	134ng-1	Antigenic Index	34-51
13661.	134ng-1	Antigenic Index	56-71
13662.	134ng-1	Antigenic Index	73-85
13663.	134ng-1	Antigenic Index	91-97
13664.	134ng-1	Antigenic Index	99-107
13665.	134ng-1	Antigenic Index	118-141

13666.	134ng-1	Antigenic Index	147-161
13667.	134ng-1	Antigenic Index	165-172
13668.	134ng-1	Antigenic Index	177-188
13669.	134ng-1	Antigenic Index	194-197
13670.	134ng-1	Antigenic Index	204-212
13671.	134ng-1	Antigenic Index	214-231
13672.	134ng-1	Antigenic Index	233-240
13673.	134ng-1	Antigenic Index	243-254
13674.	134ng-1	Antigenic Index	256-259
13675.	134ng-1	Antigenic Index	288-297
13676.	134ng-1	Antigenic Index	301-308
13677.	134ng-1	Antigenic Index	345-347
13678.	134ng-1	Antigenic Index	372-378
13679.	134ng-1	Antigenic Index	385-388
13680.	134ng-1	Hydrophilicity	9-13
13681.	134ng-1	Hydrophilicity	36-47
13682.	134ng-1	Hydrophilicity	60-70
13683.	134ng-1	Hydrophilicity	73-81
13684.	134ng-1	Hydrophilicity	102-106
13685.	134ng-1	Hydrophilicity	121-127
13686.	134ng-1	Hydrophilicity	129-141
13687.	134ng-1	Hydrophilicity	147-161
13688.	134ng-1	Hydrophilicity	165-171
13689.	134ng-1	Hydrophilicity	177-185
13690.	134ng-1	Hydrophilicity	204-209
13691.	134ng-1	Hydrophilicity	214-231
13692.	134ng-1	Hydrophilicity	233-240
13693.	134ng-1	Hydrophilicity	246-254
13694.	134ng-1	Hydrophilicity	257-259
13695.	134ng-1	Hydrophilicity	288-297
13696.	134ng-1	Hydrophilicity	301-307
13697.	134ng-1	Hydrophilicity	374-378
13698.	134ng-1	Hydrophilicity	385-388
13699.	135ng-1	AMPHI	20-25
	135ng-1	AMPHI	27-31
13700.	135ng-1	AMPHI	47-49
13701.		AMPHI	72-76
13702.	135ng-1 135ng-1	AMPHI	152-165
			167-169
13704.	135ng-1	AMPHI	
13705.	135ng-1	AMPHI	196-214
13706.	135ng-1	AMPHI	229-236
13707.	135ng-1	AMPHI	249-254
13708.	135ng-1	AMPHI	268-271
13709.	135ng-1	AMPHI	280-286

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13710.	135ng-1	Antigenic Index	1-9
13711	135ng-1	Antigenic Index	28-33
13712.	135ng-1	Antigenic Index	38-41
13713.	135ng-1	Antigenic Index	59-79
13714.	135ng-1	Antigenic Index	118-123
13715.	135ng-1	Antigenic Index	143-152
13716.	135ng-1	Antigenic Index	169-182
13717.	135ng-1	Antigenic Index	231-240
13718.	135ng-1	Antigenic Index	288-293
13719.	135ng-1	Antigenic Index	297-300
13720.	135ng-1	Hydrophilicity	1-9
13721.	135ng-1	Hydrophilicity	28-33
13722.	135ng-1	Hydrophilicity	59-66
13723.	135ng-1	Hydrophilicity	73-75
13724.	135ng-1	Hydrophilicity	118-123
13725.	135ng-1	Hydrophilicity	145-151
13726.	135ng-1	Hydrophilicity	169-175
13727.	135ng-1	Hydrophilicity	231-240
13728.	135ng-1	Hydrophilicity	291-293
13729.	135ng-1	Hydrophilicity	297-300
13730.	136ng-1	АМРНІ	17-19
13731.	136ng-1	АМРНІ	21-30
13732.	136ng-1	АМРНІ	35-43
13733.	136ng-1	AMPHI	51-62
13734.	136ng-1	АМРНІ	70-76
13735.	136ng-1	АМРНІ	95-102
13736.	136ng-1	AMPHI	106-109
13737.	136ng-1	АМРНІ	111-113
13738.	136ng-1	AMPHI	135-144
13739.	136ng-1	AMPHI	157-160
13740.	136ng-1	AMPHI	168-171
13741.	136ng-1	AMPHI	173-186
13742.	136ng-1	Antigenic Index	1-6
13743.	136ng-1	Antigenic Index	56-63
13744.	136ng-1	Antigenic Index	98-103
13745.	136ng-1	Antigenic Index	111-115
13746.	136ng-1	Antigenic Index	126-129
13747.	136ng-1	Antigenic Index	147-162
13748.	136ng-1	Antigenic Index	166-171
13749.	136ng-1	Antigenic Index	197-201
13750.	136ng-1	Antigenic Index	204-210
13751.	136ng-1	Antigenic Index	216-218
13752.	136ng-1	Antigenic Index	222-235
13753.	136ng-1	Hydrophilicity	1-6
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13754.	136ng-1	Hydrophilicity	56-60
13755.	136ng-1	Hydrophilicity	98-103
13756.	136ng-1	Hydrophilicity	126-129
13757.	136ng-1	Hydrophilicity	147-159
13758.	136ng-1_	Hydrophilicity	166-171
13759.	136ng-1	Hydrophilicity	205-209
13760.	136ng-1	Hydrophilicity	223-235
13761.	137ng-1	AMPHI	6-15
13762.	137ng-1	АМРНІ	21-25
13763.	137ng-1	АМРНІ	29-38
13764.	137ng-1	AMPHI	40-45
13765.	137ng-1	АМРНІ	54-69
13766.	137ng-1	АМРНІ	78-80
13767.	137ng-1	АМРНІ	82-85
13768.	137ng-1	АМРНІ	87-91
13769.	137ng-1	AMPHI	123-132
13770.	137ng-1	AMPHI	141-143
13771.	137ng-1	AMPHI	155-160
13772.	137ng-1	AMPHI	166-183
13773.	137ng-1	АМРНІ	194-196
13774.	137ng-1	АМРНІ	199-201
13775.	137ng-1	AMPHI	222-238
13776.	137ng-1	AMPHI	264-269
13777.	137ng-1	AMPHI	283-286
13778.	137ng-1	Antigenic Index	27-41
13779.	137ng-1	Antigenic Index	51-58
13780.	137ng-1	Antigenic Index	66-73
13781.	137ng-1	Antigenic Index	80-82
13782.	137ng-1	Antigenic Index	91-112
13783.	137ng-1	Antigenic Index	122-141
13784.	137ng-1	Antigenic Index	152-158
13785.	137ng-1	Antigenic Index	164-172
13786.	137ng-1	Antigenic Index	187-197
13787.	137ng-1	Antigenic Index	204-212
13788.	137ng-1	Antigenic Index	218-227
13789.	137ng-1	Antigenic Index	249-252
13790.	137ng-1	Antigenic Index	255-257
13791.	137ng-1	Antigenic Index	268-285
13792.	137ng-1	Antigenic Index	287-296
13793.	137ng-1	Hydrophilicity	31-41
13794.	137ng-1	Hydrophilicity	53-55
13795.		Hydrophilicity	66-72
13795. 13796.	137ng-1 137ng-1	Hydrophilicity Hydrophilicity	66-72 94-112

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13798.	137ng-1	Hydrophilicity	131-139
13799.	137ng-1	Hydrophilicity	152-158
13800.	137ng-1	Hydrophilicity	169-172
13801.	137ng-1	Hydrophilicity	190-193
13802.	137ng-1	Hydrophilicity	204-209
13803.	137ng-1	Hydrophilicity	218-226
13804.	137ng-1	Hydrophilicity	249-252
13805.	137ng-1	Hydrophilicity	255-257
13806.	137ng-1	Hydrophilicity	270-285
13807.	137ng-1	Hydrophilicity	287-296
13808.	138ng-1	АМРНІ	20-35
13809.	138ng-1	АМРНІ	37-41
13810.	138ng-1	АМРНІ	75-78
13811.	138ng-1	АМРНІ	89-116
13812.	138ng-1	АМРНІ	135-168
13813.	138ng-1	АМРНІ	148-165
13814.	138ng-1	АМРНІ	178-189
13815.	138ng-1	АМРНІ	209-218
13816.	138ng-1	АМРНІ	230-233
13817.	138ng-1	АМРНІ	263-265
13818.	138ng-1	АМРНІ	281-284
13819.	138ng-1	Antigenic Index	10-13
13820.	138ng-1	Antigenic Index	39-43
13821.	138ng-1	Antigenic Index	50-57
13822.	138ng-1	Antigenic Index	64-73
13823.	138ng-1	Antigenic Index	79-85
13824.	138ng-1	Antigenic Index	92-100
13825.	138ng-1	Antigenic Index	114-121
13826.	138ng-1	Antigenic Index	131-139
13827.	138ng-1	Antigenic Index	151-163
13828.	138ng-1	Antigenic Index	165-177
13829.	138ng-1	Antigenic Index	179-186
13830.	138ng-1	Antigenic Index	188-192
13831.	138ng-1	Antigenic Index	199-210
13832.	138ng-1	Antigenic Index	218-220
13833.	138ng-1	Antigenic Index	232-234
13834.	138ng-1	Antigenic Index	241-249
13835.	138ng-1	Antigenic Index	257-268
13836.	138ng-1	Antigenic Index	273-279
13837.	138ng-1	Antigenic Index	292-297
13838.	138ng-1	Hydrophilicity	50-57
13839.	138ng-1	Hydrophilicity	65-72
13840.	138ng-1	Hydrophilicity	79-85
13841.	138ng-1	Hydrophilicity	92-100

13842.         138ng-1         Hydrophilicity         114-119           13843.         138ng-1         Hydrophilicity         151-163           13844.         138ng-1         Hydrophilicity         165-174           13845.         138ng-1         Hydrophilicity         183-186           13846.         138ng-1         Hydrophilicity         201-207           13847.         138ng-1         Hydrophilicity         232-234           13848.         138ng-1         Hydrophilicity         243-246           13850.         138ng-1         Hydrophilicity         257-268           13851.         138ng-1         Hydrophilicity         274-276           13852.         138ng-1         Hydrophilicity         294-297           13853.         139ng-1         AMPHI         12-15           13854.         139ng-1         AMPHI         17-23           13855.         139ng-1         AMPHI         102-108           13856.         139ng-1         AMPHI         157-172           13858.         139ng-1         AMPHI         262-270           13859.         139ng-1         AMPHI         295-297           13860.         139ng-1         AMPHI         300-302 </th <th></th>	
13844.       138ng-1       Hydrophilicity       165-174         13845.       138ng-1       Hydrophilicity       183-186         13846.       138ng-1       Hydrophilicity       188-192         13847.       138ng-1       Hydrophilicity       201-207         13848.       138ng-1       Hydrophilicity       232-234         13849.       138ng-1       Hydrophilicity       243-246         13850.       138ng-1       Hydrophilicity       257-268         13851.       138ng-1       Hydrophilicity       274-276         13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13845.       138ng-1       Hydrophilicity       183-186         13846.       138ng-1       Hydrophilicity       188-192         13847.       138ng-1       Hydrophilicity       201-207         13848.       138ng-1       Hydrophilicity       232-234         13849.       138ng-1       Hydrophilicity       243-246         13850.       138ng-1       Hydrophilicity       257-268         13851.       138ng-1       Hydrophilicity       274-276         13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13846.       138ng-1       Hydrophilicity       188-192         13847.       138ng-1       Hydrophilicity       201-207         13848.       138ng-1       Hydrophilicity       232-234         13849.       138ng-1       Hydrophilicity       243-246         13850.       138ng-1       Hydrophilicity       257-268         13851.       138ng-1       Hydrophilicity       274-276         13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13847.       138ng-1       Hydrophilicity       201-207         13848.       138ng-1       Hydrophilicity       232-234         13849.       138ng-1       Hydrophilicity       243-246         13850.       138ng-1       Hydrophilicity       257-268         13851.       138ng-1       Hydrophilicity       274-276         13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       143-151         13857.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13847.       138ng-1       Hydrophilicity       201-207         13848.       138ng-1       Hydrophilicity       232-234         13849.       138ng-1       Hydrophilicity       243-246         13850.       138ng-1       Hydrophilicity       257-268         13851.       138ng-1       Hydrophilicity       274-276         13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       143-151         13857.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13848.       138ng-1       Hydrophilicity       232-234         13849.       138ng-1       Hydrophilicity       243-246         13850.       138ng-1       Hydrophilicity       257-268         13851.       138ng-1       Hydrophilicity       274-276         13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13849.       138ng-1       Hydrophilicity       243-246         13850.       138ng-1       Hydrophilicity       257-268         13851.       138ng-1       Hydrophilicity       274-276         13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13851.       138ng-1       Hydrophilicity       274-276         13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       143-151         13857.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       143-151         13857.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
13852.       138ng-1       Hydrophilicity       294-297         13853.       139ng-1       AMPHI       12-15         13854.       139ng-1       AMPHI       17-23         13855.       139ng-1       AMPHI       102-108         13856.       139ng-1       AMPHI       143-151         13857.       139ng-1       AMPHI       157-172         13858.       139ng-1       AMPHI       262-270         13859.       139ng-1       AMPHI       295-297         13860.       139ng-1       AMPHI       300-302	
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13982.	13980.	141ng-1	Antigenic Index	
13983.         141ng-1         Antigenic Index         239-241           13984.         141ng-1         Antigenic Index         256-258           13985.         141ng-1         Antigenic Index         262-264           13986.         141ng-1         Antigenic Index         295-301           13987.         141ng-1         Antigenic Index         319-327           13989.         141ng-1         Antigenic Index         343-349           13990.         141ng-1         Antigenic Index         336-379           13991.         141ng-1         Antigenic Index         383-386           13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         467-480           13996.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         497-499           13998.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.<	13981.	141ng-1	Antigenic Index	179-181
13984.         141ng-1         Antigenic Index         256-258           13985.         141ng-1         Antigenic Index         262-264           13987.         141ng-1         Antigenic Index         295-301           13988.         141ng-1         Antigenic Index         319-327           13989.         141ng-1         Antigenic Index         343-349           13990.         141ng-1         Antigenic Index         376-379           13991.         141ng-1         Antigenic Index         396-401           13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         467-480           13996.         141ng-1         Antigenic Index         47-480           13997.         141ng-1         Antigenic Index         497-499           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001. </td <td>13982.</td> <td>141ng-1</td> <td>Antigenic Index</td> <td>208-216</td>	13982.	141ng-1	Antigenic Index	208-216
13985.         141ng-1         Antigenic Index         262-264           13986.         141ng-1         Antigenic Index         281-284           13987.         141ng-1         Antigenic Index         295-301           13988.         141ng-1         Antigenic Index         319-327           13989.         141ng-1         Antigenic Index         343-349           13990.         141ng-1         Antigenic Index         376-379           13991.         141ng-1         Antigenic Index         383-386           13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         452-456           13994.         141ng-1         Antigenic Index         461-464           13995.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         485-491           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         547-558           14002.<	13983.	141ng-1		239-241
13986.         141ng-1         Antigenic Index         281-284           13987.         141ng-1         Antigenic Index         295-301           13988.         141ng-1         Antigenic Index         319-327           13989.         141ng-1         Antigenic Index         343-349           13990.         141ng-1         Antigenic Index         376-379           13991.         141ng-1         Antigenic Index         396-401           13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         461-464           13995.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         485-491           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         547-558           14002.         141ng-1         Hydrophilicity         7-17           14004.	13984.	141ng-1	Antigenic Index	256-258
13987.         141ng-1         Antigenic Index         295-301           13988.         141ng-1         Antigenic Index         319-327           13989.         141ng-1         Antigenic Index         343-349           13990.         141ng-1         Antigenic Index         376-379           13991.         141ng-1         Antigenic Index         383-386           13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         461-464           13996.         141ng-1         Antigenic Index         485-491           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         7-17           14006.	13985.	141ng-1	Antigenic Index	262-264
13988.         141ng-1         Antigenic Index         319-327           13989.         141ng-1         Antigenic Index         343-349           13990.         141ng-1         Antigenic Index         376-379           13991.         141ng-1         Antigenic Index         383-386           13992.         141ng-1         Antigenic Index         417-427           13993.         141ng-1         Antigenic Index         452-456           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         467-480           13996.         141ng-1         Antigenic Index         485-491           13997.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         95-98           14005.         141ng-1         Hydrophilicity         126-127           14006.	13986.	141ng-1	Antigenic Index	281-284
13989.         141ng-1         Antigenic Index         343-349           13990.         141ng-1         Antigenic Index         376-379           13991.         141ng-1         Antigenic Index         383-386           13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         461-464           13996.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         485-491           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         7-17           14005.         141ng-1         Hydrophilicity         125-127           14006.	13987.	141ng-1	Antigenic Index	295-301
13990.         141ng-1         Antigenic Index         376-379           13991.         141ng-1         Antigenic Index         383-386           13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         461-464           13996.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         497-499           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Hydrophilicity         7-17           14003.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         125-127           14005.         141ng-1         Hydrophilicity         210-212           14008.	13988.	141ng-1	Antigenic Index	319-327
13991.         141ng-1         Antigenic Index         383-386           13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         461-464           13996.         141ng-1         Antigenic Index         485-491           13997.         141ng-1         Antigenic Index         497-499           13998.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Antigenic Index         547-558           14003.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         7-17           14005.         141ng-1         Hydrophilicity         125-127           14006.         141ng-1         Hydrophilicity         210-212           14008.         141ng-1         Hydrophilicity         262-264           14010.	13989.	141ng-1	Antigenic Index	343-349
13992.         141ng-1         Antigenic Index         396-401           13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         461-464           13996.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         497-499           13998.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Antigenic Index         547-558           14003.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         95-98           14005.         141ng-1         Hydrophilicity         125-127           14006.         141ng-1         Hydrophilicity         166-172           14007.         141ng-1         Hydrophilicity         214-216           14009.         141ng-1         Hydrophilicity         262-264           14010.	13990	141ng-1	Antigenic Index	376-379
13993.         141ng-1         Antigenic Index         417-427           13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         461-464           13996.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         497-499           13998.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Antigenic Index         547-558           14003.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         95-98           14005.         141ng-1         Hydrophilicity         125-127           14006.         141ng-1         Hydrophilicity         166-172           14007.         141ng-1         Hydrophilicity         214-216           14009.         141ng-1         Hydrophilicity         262-264           14010.	13991.	141ng-1	Antigenic Index	383-386
13994.         141ng-1         Antigenic Index         452-456           13995.         141ng-1         Antigenic Index         461-464           13996.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         485-491           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Antigenic Index         547-558           14003.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         95-98           14005.         141ng-1         Hydrophilicity         125-127           14006.         141ng-1         Hydrophilicity         210-212           14008.         141ng-1         Hydrophilicity         214-216           14009.         141ng-1         Hydrophilicity         225-297           14011.         141ng-1         Hydrophilicity         322-325           14012.	13992.	141ng-1	Antigenic Index	396-401
13995.         141ng-1         Antigenic Index         461-464           13996.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         485-491           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Antigenic Index         547-558           14003.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         95-98           14005.         141ng-1         Hydrophilicity         125-127           14006.         141ng-1         Hydrophilicity         210-212           14008.         141ng-1         Hydrophilicity         214-216           14009.         141ng-1         Hydrophilicity         295-297           14011.         141ng-1         Hydrophilicity         322-325           14012.         141ng-1         Hydrophilicity         383-386           14014.	13993.	141ng-1	Antigenic Index	417-427
13996.         141ng-1         Antigenic Index         467-480           13997.         141ng-1         Antigenic Index         485-491           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Antigenic Index         547-558           14003.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         95-98           14005.         141ng-1         Hydrophilicity         125-127           14006.         141ng-1         Hydrophilicity         166-172           14007.         141ng-1         Hydrophilicity         210-212           14008.         141ng-1         Hydrophilicity         262-264           14010.         141ng-1         Hydrophilicity         322-325           14011.         141ng-1         Hydrophilicity         343-349           14012.         141ng-1         Hydrophilicity         397-400           14015.         <	13994.	141ng-1	Antigenic Index	452-456
13997.         141ng-1         Antigenic Index         485-491           13998.         141ng-1         Antigenic Index         497-499           13999.         141ng-1         Antigenic Index         501-514           14000.         141ng-1         Antigenic Index         516-526           14001.         141ng-1         Antigenic Index         533-542           14002.         141ng-1         Antigenic Index         547-558           14003.         141ng-1         Hydrophilicity         7-17           14004.         141ng-1         Hydrophilicity         95-98           14005.         141ng-1         Hydrophilicity         125-127           14006.         141ng-1         Hydrophilicity         166-172           14007.         141ng-1         Hydrophilicity         210-212           14008.         141ng-1         Hydrophilicity         262-264           14010.         141ng-1         Hydrophilicity         322-325           14011.         141ng-1         Hydrophilicity         343-349           14012.         141ng-1         Hydrophilicity         397-400           14014.         141ng-1         Hydrophilicity         418-427           14016. <t< td=""><td>13995.</td><td>141ng-1</td><td>Antigenic Index</td><td>461-464</td></t<>	13995.	141ng-1	Antigenic Index	461-464
13998.       141ng-1       Antigenic Index       497-499         13999.       141ng-1       Antigenic Index       501-514         14000.       141ng-1       Antigenic Index       516-526         14001.       141ng-1       Antigenic Index       533-542         14002.       141ng-1       Antigenic Index       547-558         14003.       141ng-1       Hydrophilicity       7-17         14004.       141ng-1       Hydrophilicity       95-98         14005.       141ng-1       Hydrophilicity       166-172         14006.       141ng-1       Hydrophilicity       210-212         14008.       141ng-1       Hydrophilicity       214-216         14009.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	13996.	141ng-1	Antigenic Index	467-480
13999.       141ng-1       Antigenic Index       501-514         14000.       141ng-1       Antigenic Index       516-526         14001.       141ng-1       Antigenic Index       533-542         14002.       141ng-1       Antigenic Index       547-558         14003.       141ng-1       Hydrophilicity       7-17         14004.       141ng-1       Hydrophilicity       95-98         14005.       141ng-1       Hydrophilicity       125-127         14006.       141ng-1       Hydrophilicity       166-172         14007.       141ng-1       Hydrophilicity       210-212         14008.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	13997.	141ng-1	Antigenic Index	485-491
14000.       141ng-1       Antigenic Index       516-526         14001.       141ng-1       Antigenic Index       533-542         14002.       141ng-1       Antigenic Index       547-558         14003.       141ng-1       Hydrophilicity       7-17         14004.       141ng-1       Hydrophilicity       95-98         14005.       141ng-1       Hydrophilicity       125-127         14006.       141ng-1       Hydrophilicity       210-212         14007.       141ng-1       Hydrophilicity       214-216         14009.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       322-325         14011.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	13998.	141ng-1	Antigenic Index	497-499
14001.       141ng-1       Antigenic Index       533-542         14002.       141ng-1       Antigenic Index       547-558         14003.       141ng-1       Hydrophilicity       7-17         14004.       141ng-1       Hydrophilicity       95-98         14005.       141ng-1       Hydrophilicity       125-127         14006.       141ng-1       Hydrophilicity       210-212         14007.       141ng-1       Hydrophilicity       214-216         14008.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       383-386         14013.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	13999.	141ng-1	Antigenic Index	501-514
14002.       141ng-1       Antigenic Index       547-558         14003.       141ng-1       Hydrophilicity       7-17         14004.       141ng-1       Hydrophilicity       95-98         14005.       141ng-1       Hydrophilicity       125-127         14006.       141ng-1       Hydrophilicity       210-212         14007.       141ng-1       Hydrophilicity       214-216         14008.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       383-386         14013.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14000.	141ng-1	Antigenic Index	516-526
14003.       141ng-1       Hydrophilicity       7-17         14004.       141ng-1       Hydrophilicity       95-98         14005.       141ng-1       Hydrophilicity       125-127         14006.       141ng-1       Hydrophilicity       166-172         14007.       141ng-1       Hydrophilicity       210-212         14008.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14001.	141ng-1	Antigenic Index	533-542
14004.       141ng-1       Hydrophilicity       95-98         14005.       141ng-1       Hydrophilicity       125-127         14006.       141ng-1       Hydrophilicity       166-172         14007.       141ng-1       Hydrophilicity       210-212         14008.       141ng-1       Hydrophilicity       262-264         14009.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14002.	141ng-1	Antigenic Index	547-558
14005.       141ng-1       Hydrophilicity       125-127         14006.       141ng-1       Hydrophilicity       166-172         14007.       141ng-1       Hydrophilicity       210-212         14008.       141ng-1       Hydrophilicity       262-264         14009.       141ng-1       Hydrophilicity       295-297         14010.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14003.	141ng-1	Hydrophilicity	7-17
14006.       141ng-1       Hydrophilicity       166-172         14007.       141ng-1       Hydrophilicity       210-212         14008.       141ng-1       Hydrophilicity       214-216         14009.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       383-386         14013.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14004.	141ng-1	Hydrophilicity	95-98
14007.       141ng-1       Hydrophilicity       210-212         14008.       141ng-1       Hydrophilicity       214-216         14009.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       383-349         14013.       141ng-1       Hydrophilicity       397-400         14014.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14005.	141ng-1	Hydrophilicity	125-127
14008.       141ng-1       Hydrophilicity       214-216         14009.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14006.	141ng-1	Hydrophilicity	166-172
14009.       141ng-1       Hydrophilicity       262-264         14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14007.	141ng-1	Hydrophilicity	210-212
14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14008.	141ng-1	Hydrophilicity	214-216
14010.       141ng-1       Hydrophilicity       295-297         14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14009.			
14011.       141ng-1       Hydrophilicity       322-325         14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456				
14012.       141ng-1       Hydrophilicity       343-349         14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456	14011.		Hydrophilicity	322-325
14013.       141ng-1       Hydrophilicity       383-386         14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456				
14014.       141ng-1       Hydrophilicity       397-400         14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456				
14015.       141ng-1       Hydrophilicity       418-427         14016.       141ng-1       Hydrophilicity       452-456				
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14046.	142ng-1	Antigenic Index	124-145
14047.	142ng-1	Antigenic Index	151-193
14048.	142ng-1	Antigenic Index	198-204
14049.	142ng-1	Antigenic Index	221-234
14050.	142ng-1	Antigenic Index	239-270
14051.	142ng-1	Antigenic Index	282-287
14052.	142ng-1	Antigenic Index	303-305
14053.	142ng-1	Antigenic Index	307-309
14054.	142ng-1	Antigenic Index	319-334
14055.	142ng-1	Hydrophilicity	1-10
14056.	142ng-1	Hydrophilicity	38-56
14057.	142ng-1	Hydrophilicity	92-96
14058.	142ng-1	Hydrophilicity	98-100
14059.	142ng-1	Hydrophilicity	109-119
17037.	17411g-1	113 diopiniony	107 117
14060.	142ng-1	Hydrophilicity	124-145

14062.	142ng-1	Hydrophilicity	160-170
14063.	142ng-1	Hydrophilicity	172-186
14064.	142ng-1	Hydrophilicity	188-191
14065.	142ng-1	Hydrophilicity	199-201
14066.	142ng-1	Hydrophilicity	226-234
14067.	142ng-1	Hydrophilicity	242-248
14068.	142ng-1	Hydrophilicity	250-253
14069.	142ng-1	Hydrophilicity	303-305
14070.	142ng-1	Hydrophilicity	319-328
14071.	143ng-1	AMPHI	19-21
14072.	143ng-1	AMPHI	34-38
14073.	143ng-1	АМРНІ	40-44
14074.	143ng-1	AMPHI	68-70
14075.	143ng-1	AMPHI	161-163
14076.	143ng-1	AMPHI	189-197
14077.	143ng-1	Antigenic Index	25-36
14078.	143ng-1	Antigenic Index	39-55
14079.	143ng-1	Antigenic Index	57-63
14080.	143ng-1	Antigenic Index	78-95
14081.	143ng-1	Antigenic Index	101-116
14082.	143ng-1	Antigenic Index	126-132
14083.	143ng-1	Antigenic Index	139-147
14084.	143ng-1	Antigenic Index	156-160
14085.	143ng-1	Antigenic Index	163-170
14086.	143ng-1	Antigenic Index	190-195
14087.	143ng-1	Antigenic Index	205-213
14088.	143ng-1	Hydrophilicity	26-32
14089.	143ng-1	Hydrophilicity	34-36
14090.	143ng-1	Hydrophilicity	39-55
14091.	143ng-1	Hydrophilicity	57-63
14092.	143ng-1	Hydrophilicity	80-86
14093.	143ng-1	Hydrophilicity	88-95
14094.	143ng-1	Hydrophilicity	102-106
14095.	143ng-1	Hydrophilicity	109-115
14096.	143ng-1	Hydrophilicity	126-132
14097.	143ng-1	Hydrophilicity	139-147
14098.	143ng-1	Hydrophilicity	164-169
14099.	143ng-1	Hydrophilicity	192-195
14100.	143ng-1	Hydrophilicity	208-211
14101.	144ng-1	AMPHI	6-12
14102.	144ng-1	AMPHI	41-75
14103.	144ng-1	AMPHI	84-106
14104.	144ng-1	АМРНІ	115-130
14105.	144ng-1	AMPHI	171-182

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14106.	144ng-1	AMPHI	191-198
14107.	144ng-1	AMPHI	200-202
14108.	144ng-1	АМРНІ	214-218
14109.	144ng-1	АМРНІ	235-246
14110.	144ng-1	АМРНІ	258-261
14111.	144ng-1	АМРНІ	270-272
14112.	144ng-1	АМРНІ	280-284
14113.	144ng-1	АМРНІ	287-297
14114.	144ng-1	AMPHI	301-318
14115.	144ng-1	АМРНІ	325-337
14116.	144ng-1	АМРНІ	355-365
14117.	144ng-1	АМРНІ	376-389
14118.	144ng-1	Antigenic Index	9-15
14119.	144ng-1	Antigenic Index	25-33
14120.	144ng-1	Antigenic Index	62-70
14121.	144ng-1	Antigenic Index	81-83
14122.	144ng-1	Antigenic Index	91-99
14123.	144ng-1	Antigenic Index	118-123
14124.	144ng-1	Antigenic Index	130-135
14125.	144ng-1	Antigenic Index	149-151
14126.	144ng-1	Antigenic Index	163-172
14127.	144ng-1	Antigenic Index	180-184
14128.	144ng-1	Antigenic Index	200-203
14129.	144ng-1	Antigenic Index	205-209
14130.	144ng-1	Antigenic Index	232-240
14131.	144ng-1	Antigenic Index	274-276
14132.	144ng-1	Antigenic Index	278-294
14133.	144ng-1	Antigenic Index	302-309
14134.	144ng-1	Antigenic Index	313-335
14135.	144ng-1	Antigenic Index	341-346
14136.	144ng-1	Antigenic Index	349-357
14137.	144ng-1	Antigenic Index	369-376
14138.	144ng-1	Antigenic Index	397-408
14139.	144ng-1	Hydrophilicity	11-15
14140.	144ng-1	Hydrophilicity	25-33
14141.	144ng-1	Hydrophilicity	65-67
14142.	144ng-1	Hydrophilicity	91-99
14143.	144ng-1	Hydrophilicity	118-120
14144.	144ng-1	Hydrophilicity	180-184
14145.	144ng-1	Hydrophilicity	279-294
14146.	144ng-1	Hydrophilicity	302-309
14147.	144ng-1	Hydrophilicity	313-319
14148.	144ng-1	Hydrophilicity	322-334
14149.	144ng-1	Hydrophilicity	350-357
			<del></del>

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14150.	144ng-1	Hydrophilicity	369-376
14151.	144ng-1	Hydrophilicity	397-408

It will be understood that the invention is described above by way of example only and modifications may be made whilst remaining within the scope and spirit of the invention.

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## **TABLE II**

5

The present invention does not include within its scope proteins comprising any of the 446 protein sequences disclosed in WO99/24578. As stated above, if the length of any particular protein sequence disclosed in WO99/24578 is x amino acids, the antigenic fragment of the present invention has at most x-1 amino acids of that protein. For each of the 446 protein sequences given in WO99/24578, the value of x is given in the following table:

SEQ ID NO:	x	SEQ ID NO:	x	SEQ ID NO:	x	SEQ ID NO:	X
2	168	226	288	450	351	674	122
4	198	228	318	452	263	676	307
6	90	230	318	454	619	678	307
8	126	232	189	456	627	680	307
10	118	234	592	458	127	682	60
12	286	236	592	460	227	684 .	338
14	413	238	455	462	298	686	338
16	413	240	592	464	628	688	338
18	413	242	216	466	556	690	502
20	135	244	284	468	119	692	506
22	299	246	284	470	472	694	506
24	300	248	291	472	472	696	506
26	287	250	394	474	193	698	82
28	304	252	706	476	472	700	245
30	187	254	706	478	139	702	245
32	331	256	400	480	417	704	245
34	331	258	706	482	417	706	172
36	236	260	155	484	269	708	384
38	298	262	228	486	337	710	384
40	166	264	228	488	103	712	271
42	614	266	228	490	1014	714	384
4 4	612	268	173	492	1014	716	190
46	300	270	150	494	925	718	360
48	612	272	150	496	1014	720	145
50	240	274	526	498	373	722	227
52	545	276	145	500	371	724	227
54	545	278	76	502	371	726	122
56	243	280	161	504	362	728	227
58	546	282	161	506	371	730	147
60	126	284	161	508	135	732	157
62	126	286	292	510	263	734	157
64	135	288	291	512	325	736	86
66	135	290	291	514	721	738	157
68	136	292	300	516	721	740	233
70	228	294	291	518	230	742	233
72	228	296	251	520	721	744	233
74	136	298	252	522	705	746	233
76	229	300	252	524	175	748	233
78	213	302	252	526	428	750	386
80	320	304	524	528	428	752	407
82	320	306	524	530	428	754	405
84	-320	308	424	532	154	756	405
86	196	310	524	534	388	758	142
88	268	312	197	536	388	760	142
90	268	314	313	538	388	762	142
92	268	316	313	540	201	764	142
94	268	318	313	542	300	766	392
96	116	320	395	544	300	768	334
98	201	322	394	546	506	770	392
100	201	324	395	548	300	772	392
102	201	326	395	550	234	774	184
104	103	328	371	552	235	776	223
106	716	330	671	554	234	778	223

108	716	332	671	556	235	780	223
110	370	334	434	558	149	782	156
112	716	336	671	560	300	784	356
114	454	338	162	562	300	786	356
116	512	340	162	564	300	788	253
118	512	342	162	566	123	790	356
120	454	344	162	568	298	792	182
122	512	346	93	570	298	794	256
124	158	348	196	572	297	796	256
126	447	350	196	574	189	798	256
128	447	352	196	576	513	800	64
130	322	354	196	578	513	802	407
132	447	356	159	580	513	804	347
134	320	358	159	582	513	806	343
136	522	360	159	584	87	808	408
138	522	362	159	586	461	810	183
140	522	364	159	588	461	812	366
142	167	366	198	590	461	814	366
144	381	368	198	592	461	816	366
146	382	370	199	594	140	818	366
148	181	372	199	596	553	820	150
150	451	374	474	598	558	822	149
152	451	376	473	600	585	824	149
154	323	378	473	602	558	826	149
156	120	380	473	604	59	828	244
158	238	382	212	606	342	830	622
160	237	384	289	608	342	832	622
162	237	386	289	610	110	834	622
164	125	388	267	612	214	836	88
166	483	390	290	614	227	838	248
168	466	392	222	616	298	840	248
170	468	394 .	222	618	213	842	174
172	498	396	222	620	136	844	248
174	42	398	222	622	406	846	193
176	181	400	277	624	408	848	357
178	181	402	277	626	408	850	357
180	179	404	307	628	408	852	364
182	84	406	307	630	75	854	356
184	83	408	307	632	375	856	121
186	263	410	312	634	375	858	135
188	81	412	291	636	409	860	135
190	382	414	291	638	375	862	135
192	382	416	372	640	237	864	135
194	345	418	291	642	291	866	259
196	383	420	188	644	300	868	458
198	143	422	238	646	291	870	458
200	446	424	188	648	1450	872	261
202	449	426	181	650	1457	874	458
204	397	428	181	652	1449	876	393
206	446	430	181	654	1468	878	888
208	150	432	231	656	140	880	871
210	453	434	262	658	131	882	922
212	459	436	262	660	201	884	922
214	459	438	231	662	174	886	166
216	93	440	262	664	211	888	326
218	287	442	210	666	725	890	356
220	59	444	241	668	725	892	356
222	287	446	351	670	623		
				672	725		

## **CLAIMS**

- 1. A fragment of a protein disclosed in WO99/24578, wherein the fragment comprises at least one antigenic determinant.
- 2. The fragment of claim 1, having a length of 100 amino acids or less.
- 5 3. The fragment of claim 1 or claim 2, having a length of 3 amino acids or greater.
  - 4. The fragment of any preceding claim, being one of the 14151 fragments of Table I.
  - 5. A polypeptide having 50% or greater sequence identity to the fragment of any preceding claim.
- 6. A protein comprising one or more fragment of claim 1, claim 2 or claim 3, with the proviso that the protein is not one of the 446 complete protein sequences disclosed in WO99/24578.
  - 7. An antibody which recognises the fragment according to any one of claims 1 to 4.
  - 8. A protein comprising a peptide sequence, wherein the peptide sequence is recognised by an antibody according to claim 7.
- 9. Nucleic acid encoding the fragment of claim 1, claim 2 or claim 3, the polypeptide of claim 1, or the protein of claim 8.
  - 10. A composition comprising the fragment of claim 1, claim 2 or claim 3, the polypeptide of claim 5, the protein of claim 8, the antibody of claim 7, and/or the nucleic acid of claim 9, wherein the composition is a vaccine, a diagnostic reagent, or an immunogenic composition.
  - 11. The composition of claim 10 for use as a medicament
- 20 12. The use of the fragment of claim 1, claim 2 or claim 3, the polypeptide of claim 5, the protein of claim 8, the antibody of claim 7, and/or the nucleic acid of claim 9, in the manufacture of (i) a medicament for treating or preventing infection due to Neisserial bacteria (ii) a diagnostic reagent for detecting the presence of Neisserial bacteria or of antibodies raised against Neisserial bacteria and/or (iii) a reagent which can raise antibodies against Neisserial bacteria.
- 25 13. A method of treating a patient, comprising administering to the patient a therapeutically effective amount of a composition according to claim 10.